warhing several of the trays the eggs presented a bright and healthy appearance, the embryo being discernible in all. This being the cace, I considered, in that stage of derelopment, the sediment was less hurtful to them than disturbance would be, and I directed Mr. Sheangreen to let them remain another week without washing or moving them.

On making measurements and planning the position of the tilters I found that they could not be attached to the main tank without very considerable changes in the height and position of the troughs, necessitating a greater amount of disturbance to the ova than would then be prudent. As the fieshet was then groing down, and the water every day becoming clearer and purer. I considered it more prodent not to attempt putting in the tilters at that time. I made arrangements to have them prepared, and ready to attach without loss of time, if necessary, when the further development of the ova would admit of the anavoidable motion without risk. 1 wring the first week in December the whole of the ova was carofully washed with the most gratifying result, and coming out of the sediment bright and healthy. with the very small loss of only 700 in this critical operation. As the weather has since set in cold, and as the freezing of the shores and surface of the niream will effectually prevent the flow of any large amount of sediment, I have strong hopes that no further danger nead be apprehended from this source. Before the spring freshets set in, the ora will be so far advanced that I do not fear any serions danger from them.

In the course of next summer the floors of the batching house will need to be coated with tar to pevent decay, and all the troughs will have to be removed, made thoroughly tight, and painted, for the same purpose. When this is done, the necensary changes can be made, the filers pat in properly, and no arranged as to give a more complete control of the water supply. This will remore all danger from sedimentary deposits, save much labour, and conduce greatly to future success. In the meantime, as the ova are progressing favourably, beyond my most sangune hopes, I apprehend no further danger from sediment, nor from any other cacse that careful attention cannot guard against. If no unforeseen accident occars, I have every reason to expect that not less than 600,000 young fish will be ready for distribution next May.

I have obtained from Mr. A. B. Wilmot a numker of the earthenware trays now used in the Bedford houre, and as soon as the ova will bear removal, I propose to transfer some thousands of them from the zinc trays, in order to test, by actual experiment whether the former are better adapted to the water of the stram from which the troughs are supplied. Mr. Wilmot's opinion is that some foreign element in this water causes a chemical action when in contact with zinc, which is unfarourable to the healthy development of the ova. Should the result prove that this opinion is correct, the adoption of the earthenware trays will sare much more than the cost.

The experience of the past two seasons convinces me that in future it will not be wise to trust to the mode hitherto employed to procure the parent fish. Some more certain and effectual means will have to be adopted. I propose next season to commence earlier, and to extend our efforts to the south-west, as well as to the northwest'branch of the river. In addition to the bar net heretofore used, I propose to adopt the sweep net, and to employ it in pools where the fish lie waiting for the fall freshets. This mode will, I am convinced, not only be more successful, but also more economical, than that heretofore employed. The great diticulties that have attended our past efforts to secure a sufficient supply of ova will, I hope, by this means, be overcome, and in future seasons I trust that every foot of available space in the hatching troughs will be utilized.

I have the honour to be. Sir, Your cbedient servant, W. II. VEN NING.

Inspcatcr Fisheries, N.B.

