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Research on outflow of nutritive salt from field in river

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It is at 1999 that the nitrate nitrogen and the nitrite nitrogen in the river were provided in our country as a health item of environmental standards (10mg/L). A lot of underground water pollutions are reported regardless of the inside and outside in the country. However, the report of surface water is few. Then, we investigated two rivers where with a vast field in the valley.

[Research]

It is a clement climate that faces both valleys and the Pacific Ocean, and the farm production is an active region. Especially, it centers on the production of the outdoors vegetables such as the cabbages.

The valley in both rivers was surveyed, and obtaining water, pH, EC, and the flow measurement were done.

[Result and consideration]

At Ttakada river, the density of nitrate nitrogen exceeded standard 10mg/l excluding part. Having been polluted by the nitrate nitrogen with a high density the entire valley became clear. At Umeda river, it was standard value 10mg/l or less in the environmental standards point. However, in the point that flowed in the region where the field extended, the point where the standard value was greatly exceeded became clear.

Keywords: Non-point source, Nitrate Nitrogen, Surface Water