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## Abstract

The water pollution in Hsin-Tein stream and Wan-Shin stream near the entrance of the waterworks in Taipei City was investigated. Four stations were selected: St.<sub>2</sub> was in Wan-Shen stream and the others (St.<sub>1</sub>, St.<sub>3</sub> and St.<sub>4</sub>) were in Hsin-Tein stream. The surveys started in September, 1972 and ended in August, 1973. Two surveys were taken monthly. The important findings with relation to biotic factors were as follows:

1. The total count of bacteria in both St.<sub>2</sub> and St.<sub>4</sub> were generally much more than the standard value of drinking water (100/ml). Especially it was higher than  $1.0 \times 10^6$ /ml.
2. The amount of coliform count were  $1.46 \times 10^5$ /100ml. and  $1.98 \times 10^7$ /100 ml. in the water of St.<sub>2</sub> and St.<sub>4</sub> respectively. They were higher than that of standard value ( $1.2 \times 10^5$ /100ml) of water in the stream. However it was rarely higher than that of standard value in both St.<sub>1</sub> and St.<sub>3</sub> occasionally.
3. In station 2, there were many polysaprobic indicator species such as Euglena, Oscillaria, larvae of Culex and Lyngbya ..... etc. which were rarely observed in other stations.

The present study indicated that the water in Wan-Shen stream (St.<sub>2</sub>) belonged to the polysaprobic degree. St.<sub>4</sub> was seriously contaminated by organic compounds of domestic pollution, and both St.<sub>1</sub> and St.<sub>3</sub> were slight contaminated by the polluted water of Wan-Shen stream.