

## 水棲昆蟲의 多樣性에 依한 慶安川水系의 生物學的 水質評價

環境調査科

裴京錫·李尙壽·申道澈·李海植

金珍坤·吳秀暻·朴相賢

## A Study on the Biological Estimation of Water Quality by Diversity of Aquatic Insects in Kyungan-Stream, Kyungi-do

*Division of Environment Research*

Kyung Seok Bae, Sang Soo Lee, Do Chul Shin, Hai Sik Lee

Gin Gon Kim, Soo Kyung Oh and Sang Hyun Park

### = Abstract =

The present study was accomplished from March to August, 1990 in order to examine the community structure of aquatic insects and the biological estimation of water pollution levels by the aquatic insects of Kyungan stream in Kyungi-do.

1. The aquatic insects of whole area composed of 78 species, 42 genera, 26 families in 8 orders.

2. The occurrence species number show highest at Gungpyung-ri (29 species) and lowest at Yongin town (1 species).

3. Dominance indices show lowest at Gungpyung-ri (0.35) and highest at Yongin town (1.00) and Choboo-ri (1.00).

4. Species diversity indices show highest at Gungpyung-ri (3.53) and lowest at Yongin town (0.00).

5. The biological estimation of each area's water quality levels based on the diversity index are as follows.

Oligosaprobic area : Gungpyung-ri, Muchu-ri.

$\alpha$ -mesosaprobic area : Yooeun-ri, Choboo-ri (K4), upper site of Wangsanri, Yeuk-ri, Wangsan-ri.

$\beta$ -mesosaprobic area : Gonjiam-ri, Dopyoung-ri, Kyungan-ri, Wondang-ri.

Polysaprobic area : Yongin town, Choboo-ri (K5).

