

Diatom 25: 148-152 (和文)

吉澤一家：付着珪藻群集から見た甲府市内河川の有機汚濁状況

Kazuya Yoshizawa: Numerical estimation of the organic pollution of Arakawa River in Kofu city based on the attached diatom assemblage

#### Abstract

The organic pollution of Arakawa River in Kofu city was assessed using the diatom assemblage index to organic pollution (DAIpo). The DAIpo values were 98, 45 and 45 at the up-, mid- and downstreams, respectively. BOD at the mid- and downstreams were threefold higher than at the upstream. Among the dominant diatoms at the upstream, *Encyonema silesiacum* and *Hannaea arcus* var. *hattoriana*, were also abundant in 1977, suggesting little change of the diatom species composition during 30 years despite the dam construction.

Key index words: Arakawa River, DAIpo, diatom assemblage, water quality