RESEARCH NOTE

SEASONAL VARIATION OF METACERCARIAE IN CYPRINOID FISH FROM KWAE NOI BAMROONGDAN DAM, PHITSANULOK PROVINCE, NORTHERN THAILAND

Waraporn Noikong^{1,2}, Chalobol Wongsawad and Anawat Phalee¹

¹Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai; ²Biology Program, Faculty of Science and Technology, Pibulsongkram Rajabhat University, Phitsanulok, Thailand

Abstract. A seasonal investigation of the occurrence of metacercariae in cyprinoid fish was conducted at the Kwae Noi Bamroongdan Dam, Phitsanulok Province, northern Thailand during December 2008 - August 2009. A total 361 cyprinoid fish from 10 species were examined by artificial digestion method evaluating for metacercariae. The metacercariae determined were *Haplorchis taichui*, *Haplorchis pumilio*, *Haplorchoides* sp and *Centrocestus caninus*. The prevalence of metacercariae ranged from 76.5% to 82.6%, with an intensity of infection of 23.4 to 36.6. *H. taichui*, *Haplorchoides* sp and *C. caninus* had the highest prevalence in the cool season, while *H. pumilio* was more prevalent during the hot season. The highest infection prevalence (100%) was seen in *Rasbora metallicus*, *Barbodes gonionotus* and *R. metallicus*. No significant differences in the type of metacercariae were found between seasons, indicating year-round infestation of cyprinoid fish.

Keywords: cyprinoid fish, metacercariae, seasonal variation, Kwae Noi Bamroongdan Dam, Thailand

Correspondence: Chalobol Wongsawad, Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai 50200, Thailand.

E-mail: cwongsawd@yahoo.com