

Vipada Vettaya 2014: Parasites of Domestic Ducks, *Anas platyrhynchos* Linnaeus 1758. Master of Science (Biology), Major Field: Biology, Department of Zoology. Thesis Advisor: Assistant Professor Smarn Keawviyudth, Ph.D. 66 pages.

Study of parasites of domestic ducks *Anas platyrhynchos* at one location in Nakhonpathom province. Sixty of *A. platyrhynchos* were randomly collected every 2 month, six times in a year round during July 2012 to June 2013. Total of 843 parasites revealed the following groups; ectoparasites as lice (71.33%) and mites (28.67%). Three species of lice were identified as *Eshiopterus* sp., *Menopon gallinae*, and *Philopterus* sp., with mean intensities 47.34%, 21.23% and 2.77% respectively. One group of mites were found as *Megninea* sp. (7.86%) and another group of unidentified mites (20.80%). Endoparasitic worms as flukes (49.20%) and tape worms (50.80%) were found. Three species of flukes were identified as *Echinostoma revolutum* (19.12%), *Echinoparyphium recurvatum* (48.09%) and *Hypoderaeum conoideum* (32.79%). Four species of tape worms were identified as *Dicranotaenia coronula*, *Hymenolepis* sp., *Fimbriaria* sp. and *Microsomacanthus* sp. with mean intensities 34.92%, 27.51%, 22.76% and 14.81% respectively.

From the studied results of parasites of domestic ducks *A. platyrhynchos* in Nakhonpathom province may be useful and significant to current epidemiological studies, particularly on the species diversity of parasites in this cultured domestic duct area. Some species of parasites may cause helminthiasis in human. Further studies on seasonal and other environmental factors on the prevalence of ectoparasites including helminthiasis in human are deemed relevant.

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Thesis Advisor's signature