

**MANILA DUCK (*Cairina moschata*) SEMEN QUALITY  
ON VARIOUS DILUTION RATION OF YOUNG  
COCONUT WATER AND EGG YOLK**

**Aulia Wedya Nugroho**

**ABSTRACT**

The aim of this research was to know the quality of manila duck (*Cairina moschata*) semen on various dilution ratios of young coconut water and egg yolk. Samples in this research were used manila ducks (*Cairina moschata*) semen from each of first ejaculation two manila ducks which 1,5 years old. Each of semen intake was divided into four treatments. A ratio of first treatment (P1) was (1 : 1), a ratio of second treatment (P2) was (2 : 1), a ratio of third treatment (P3) was (3 : 1), a ratio of fourth treatment (P4) was (4 : 1). Data were analyzed with *Two Way Univariate Analysis of Variance* (ANOVA) and differences between each treatment were done with *Tukey HSD 5%* test. The research results showed significant differences ( $p < 0,05$ ) on pH semen, spermatozoon motility percentage and spermatozoon viability percentage, but there was no significant difference ( $p > 0,05$ ) on spermatozoon abnormality percentage between dilution ratios. *Tukey HSD 5%* test showed that pH semen, spermatozoon motility percentage and spermatozoon viability percentage on first treatment (P1) was higher and significantly different with the other treatments. The conclusions of this research were young coconut water and egg yolk were able to increase semen quality until a ratio of (1 : 1) and consequently semen quality tends to decrease.

**Key word** : manila duck, semen, egg yolk, young coconut water.