

ABSTRACT

THE EFFECT OF *SEX RATIO* ARABIC CHICKEN ON FERTILITY, HATCHABILITY, AND DOC WEIGHT

by

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This study aimed to determine (1) the effect of *sex ratio* of arabic chicken on fertility, hatchability, and doc weight and (2) to determine the best *sex ratio* of arabic chicken on fertility, hatchability, and doc weight. This study was conducted in August 2015 at Tegalrejo village, Gadingrejo districk, Pringsewu regency. This research use 144 arabic chicken consisted of 18 males and 126 females. This research use the complete randomized design with 3 treatments and 6 times replications. Every treatments use 8 of the arabic chiken eggs. The average of hatching egg weight is $42,96 \pm 3,5$ g. The result shown that *sex ratio* effect is not significant ($P > 0,05$) to fertility, hatchability, and doc weight arabic chicken.

Keywords : *Sex ratio*. Arabic chicken, fertility, hatchability, hatching weight