Genetic Analysis of Tolaki Chicken During Growth Period

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GENETIC ANALYSIS OF TOLAKI CHICKEN DURING GROWTH PERIOD

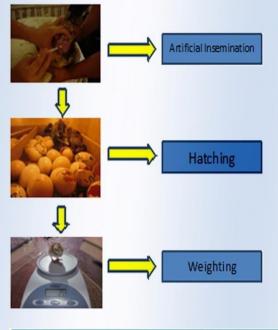
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Introduction

Tolaki chicken was an original chicken of Southeast Sulawesi are scattered in several areas such Konawe and South Konawe. Nevertheless the information characteristic of Tolaki chicken as typical chicken in Southeast Sulawesi has not been much reported, either ghenotip and phenotypes character. research that studies the biological and genetic aspects in Tolaki chickens not yet implemented, so that the data potential production, maintenance efficiency has not been much noticed.

As the initial step in this research was conducted to find out the potential of the phenotype and genetic Tolaki chicken during growth, including the potential productivity and reproduktivity.

PROCEDURE



RESULT

Heritability Value of Body Weight on 0 -12 Week

Age (week)	Heritability		
	ĥ²,	ĥ² _d	ĥ² _(s+d)
0	0,28 ± 0,29	-0,05 ± 0,11	0,12 ± 0,13
1	0,39 ± 0,33	0,01 ± 0,08	0,20±0,23
2	0,41±0,35	0,01±0,13	0,21±0,24
3	0,52 ± 0,38	0,15 ± 0,21	0,34±0,31
4	0,70 ± 0,45	0,19 ± 0,13	0,44±0,25
5	0,55 ± 0,42	0,08 ± 0,13	0,31±0,29
6	0,54 ± 0,41	-0,08 ± 0,26	0,23±0,26
7	0,49 ± 0,38	0,05±0,15	0,27 ± 0,27
8	0,49 ± 0,38	-0,25 ± 0,27	0,12±0,13
9	0,39 ± 0,33	-0,24±0,26	0,08±0,14
10	0,30 ± 0,28	-0,18±0,19	0,06±0,12
11	0,39±0,33	-0,20±0,21	0,09±0,16
12	0,27 ± 0,26	-0,23±0,23	0,02 ± 0,07

 h_s^2 : male component h_d^2 : male + female component h_d^2 : female component

Heritability Value of Body Weight Gain On 1-11 Week

Age (week)	Heritability			
	ĥ²,	ĥ² _d	ĥ ² (s+d)	
0	0,28 ± 0,29	-0,05 ± 0,11	0,12 ± 0,13	
1	0,39 ± 0,33	0,01 ± 0,08	0,20 ± 0,23	
2	0,41 ± 0,35	0,01 ± 0,13	0,21 ± 0,24	
3	0,52 ± 0,38	0,15 ± 0,21	0,34 ± 0,31	
4	0,70 ± 0,45	0,19 ± 0,13	0,44 ± 0,25	
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11	0,39 ± 0,33	-0,20 ± 0,21	0,09 ± 0,16	
12	0,27 ± 0,26	-0,23 ± 0,23	0,02 ± 0,07	

h2; male component h2(sed): male + female component

ha : fem ale component

Conclusion

Based on the results of research carried out on Genetic Analysis on Growth Period Tolaki Chicken can be summarized as follows:

 Inheritance nature of growth based on the variance components stud (H2S) based on the parent (H2D) and the stud and parent (H2S + d) reasonably fluctuate depicting still vast variance chicken growth properties Tolaki

to 12 weeks with a high heritability values and positive values.