

## Jambura Journal of Animal Science



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|  | <b>Frequency</b>     | : Biannual (May and November)   |
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- Animal products science and technology
- Animal Health and Health of Veterinary Public
- Animal Waste Management
- Fish
- Livestock farming system
- Animal feed and nutrition
- Feed science and technology
- Feed additive technology
- Welfare animal
- Animal behavior
- Expectation of wildlife
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### Abstract

The aim was to determine the heritability of egg weight, hatch weight, age of a week body weight in crossbred chickens. This research was conducted from August-November 2017, in Tumbihe Village, Kabila District, Bone Bolango District, Gorontalo province. The research material was eggs and DOC originating from a cross between male Kampung chicken and female Leghorn chicken, Isa Brown strain, these eggs were weighed and hatched in a hatchery machine. The parameters measured were egg weight heritability, hatch weight, 1 week body weight in crossbred chickens. Data were analyzed by descriptive statistics. The results of this study are the heritability of egg weight in the population is  $0.533 \pm 0.03$  and the variance coefficient is 6.16%. The heritability of hatch weight in the population is  $0.532 \pm 0.02$  and the variance coefficient is 4.33%. While the heritability value of 1 week age weight in the population is  $0.530 \pm 0.02$  and the variance coefficient is 3.26%.

### Keywords

Heritability, egg weight, hatch weight, age of a week body weight

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## HERITABILITAS BOBOT TELUR, BOBOT TETAS DAN BOBOT BADAN AYAM HASIL PERSILANGAN UMUR 1 MINGGU (DOC)

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### ABSTRAK

The aim was to determine the heritability of egg weight, hatch weight, age of a week body weight in crossbred chickens. This research was conducted from August-November 2017, in Tumbihe Village, Kabila District, Bone Bolango District, Gorontalo province. The research material was eggs and DOC originating from a cross between male Kampung chicken and female Leghorn chicken, Isa Brown strain, these eggs were weighed and hatched in a hatchery machine. The parameters measured were egg weight heritability, hatch weight, 1 week body weight in crossbred chickens. Data were analyzed by descriptive statistics. The results of this study are the heritability of egg weight in the population is  $0.533 \pm 0.03$  and the variance coefficient is 6.16%. The heritability of hatch weight in the population is  $0.532 \pm 0.02$  and the variance coefficient is 4.33%. While the heritability value of 1 week age weight in the population is  $0.530 \pm 0.02$  and the variance coefficient is 3.26%.

*Kata Kunci* : Heritability, egg weight, hatch weight, age of a week body weight

### PENDAHULUAN

Peran ayam kampung lokal sebagai penghasil telur maupun daging, sangat berarti bagi masyarakat walaupun kemampuan produksi ayam ini rendah dibanding dengan ayam ras petelur dan ras pedaging (Dako dkk, 2018), selain itu, pertumbuhan ayam kampung lokal lambat disebabkan rendahnya mutu genetik. Perbaikan genetik dapat dilakukan sebagai upaya menghasilkan ayam kampung yang memiliki produksi telur yang tinggi, pertumbuhan yang cepat, dan ketersediaan bibit yang berkualitas. Perbaikan mutu genetik ternak melalui seleksi dan persilangan ditentukan oleh kekuatan pewarisan sifat yang diperbaiki dan diturunkan pada

generasai berikutnya. Nilai heritabilitas mengarah pada kekuatan pewarisan dari tetua pada keturunannya. Nilai parameter genetik suatu sifat pada suatu populasi dapat digunakan sebagai salah satu petunjuk kearah mana langkah-langkah perbaikan mutu genetik populasi tersebut. Pada kondisi tertentu, parameter suatu sifat mempunyai nilai heritabilitas yang tinggi maka seleksi individu merupakan metode yang tepat dalam perbaikan mutu genetik sifat tersebut karena respon seleksi yang diharapkan lebih besar dibanding sifat dengan heritabilitas genetik yang rendah. Informasi tentang heritabilitas menjadi dasar dalam proses seleksi selanjutnya.



### METODE PENELITIAN

Penelitian telah dilaksanakan dari Agustus-November 2017 di Kelurahan Tumbihe, Kecamatan Kabila, Kabupaten Bone Bolango, Provinsi Gorontalo. Penelitian ini menggunakan telur ayam hasil persilangan sebanyak 300 butir. Telur ini berasal dari persilangan 3 pejantan ayam kampung (3 ekor) dan ayam leghorn betina strain Isa brown (30 ekor), perbandingan 1:10. Metode Inseminasi buatan digunakan dalam perkawinan antar induk, dengan pengenceran semen 1:3.

Pengumpulan telur dilakukan setiap hari, selanjutnya dilakukan pengukuran. Masa simpan telur tetas selama 7 hari. Mesin Tetas yang digunakan adalah mesin tetas otomatis berkapasitas 200 butir. Untuk menghindari kekurangan data penetasan telur di ulangi sebanyak 3 kali.

#### Parameter yang di ukur

Parameter yang diukur adalah: Heritabilitas bobot telur, bobot tetas dan bobot badan umur seminggu. Heritabilitas dihitung berdasarkan fulshib corelation menggunakan rumus yang digunakan Agroland, J (2009) yaitu:

$$h^2 = \frac{2\sigma^2s}{\sigma^2s + \sigma^2w}$$

Keterangan:

- $h^2$  = Heritabilitas
- $\sigma^2s$  = Ragam Pejantan
- $\sigma^2w$  = Ragam Anak

1. Menghitung nilai heritabilitas bobot tetas
2. Menghitung nilai heretabilitas bobot badan umur 1 hari sampai 1 minggu.

### Analisis Data

Data yang diperoleh dari dianalisis secara deskriptif dengan mengikuti Indrawati dkk (2015), yaitu sebagai berikut:

1. Nilai Maksimum dan Nilai Minimum  
Rata-rata/Mean ( $\bar{x}$ )

$$\bar{x} = \frac{x_1 + x_2 + \dots + x_n}{n} \text{ atau } \bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

2. Simpangan Baku

$$S = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n - 1}}$$

3. Koefisien Variasi

$$KV = \frac{S}{\bar{X}} \times 100\%$$

### HASIL DAN PEMBAHASAN

#### Nilai Heritabilitas Bobot Telur

Nilai heritabilitas bobot telur berdasarkan korelasi fullsib ayam hasil persilangan diperoleh pada penelitian ini disajikan pada Tabel 6.

Tabel 6. Nilai heritabilitas bobot telur berdasarkan korelasi fullsib

| P      | A     | B      | C      | Total |
|--------|-------|--------|--------|-------|
| 1      | 0.55  | 0.50   | 0.52   |       |
| 2      | 0.58  | 0.55   | 0.57   |       |
| 3      | 0.52  | 0.53   | 0.51   |       |
| 4      | 0.51  | 0.57   | 0.48   |       |
| Total  | 2.17  | 2.15   | 2.08   | 6.40  |
| Rataan | 0.540 | 0.5375 | 0.520  | 0.533 |
| Stdev  | 0.032 | 0.031  | 0.037  | 0.032 |
| Covar  | 0.059 | 0.055  | 0.0710 | 0.062 |

Berdasarkan tabel diatas, nilai heritabilitas bobot telur hasil persilangan setiap populasinya adalah 0.54, 0.54, dan 0.52.

Rataan seluruh bobot telur populasi adalah 0.53. Hasil penelitian ini menggambarkan nilai heritabilitas bobot telur termasuk tinggi. Kategori besar kecilnya nilai heritabilitas, yaitu:  $h^2 < 0,20$  rendah;  $0,20 - 0,40$  sedang dan  $> 0,40$  tinggi. Standar deviasi nilai heritabilitas bobot telur ditiap pejantan sesuai tabel 6 adalah 0.03, 0.03, dan 0.04 dengan rata-rata nilai standar deviasi untuk nilai heritabilitas adalah 0.01. Hal ini menunjukkan bahwa penyimpangan nilai rata-rata untuk nilai heritabilitas bobot telur keseluruhan populasi tiap-tiap kelompok pejantan sebesar 0.01. Nilai koefisien variasi dari nilai heritabilitas bobot telur ditiap pejantan sesuai tabel 6 adalah 0.05, 0.06, dan 0.07. Menurut (Ijas, 2012), suatu kelompok data dikatakan lebih homogen dari pada kelompok data lainnya apabila nilai koefisien variasinya lebih kecil atau dibawah 10%.

#### Nilai Heritabilitas Bobot Tetas

Nilai heritabilitas bobot tetas berdasarkan korelasi fullsib hasil persilangan antara pejantan ayam kampung dan betina ayam leghorn strain isa brown yang diperoleh pada penelitian ini disajikan pada tabel 7.

Tabel 7. Nilai heritabilitas bobot tetas berdasarkan korelasi fullsib

| P      | A     | B     | C     | Total |
|--------|-------|-------|-------|-------|
| 1      | 0.54  | 0.57  | 0.50  |       |
| 2      | 0.52  | 0.51  | 0.55  |       |
| 3      | 0.52  | 0.53  | 0.50  |       |
| 4      | 0.53  | 0.54  | 0.57  |       |
| Total  | 2.11  | 2.16  | 2.12  | 6.38  |
| Rataan | 0.528 | 0.538 | 0.530 | 0.532 |
| Stdev  | 0.010 | 0.025 | 0.036 | 0.023 |
| Covar  | 0.018 | 0.047 | 0.067 | 0.044 |

Berdasarkan tabel 7 diatas, nilai heritabilitas bobot tetas hasil persilangan setiap populasinya adalah 0.53, 0.54, dan 0.53. Rataan bobot tetas

seluruh populasi adalah 0.53. Dari penjelasan sebelumnya bahwa bobot telur sangat mempengaruhi bobot tetas, sehingga nilai heritabilitas bobot tetas juga dipengaruhi.

Standar deviasi dari nilai heritabilitas bobot tetas ditiap pejantan sesuai tabel 7 adalah 0.01, 0.02, dan 0.04 dengan rata-rata standar deviasi adalah 0.01. Hal ini menunjukkan bahwa penyimpangan nilai rata-rata untuk nilai heritabilitas bobot tetas keseluruhan populasi tiap-tiap kelompok pejantan sebesar 0.01. Koefisien variasi dari nilai heritabilitas bobot tetas ditiap-tiap pejantan sesuai tabel 7 adalah 0.02, 0.04, dan 0.07 dengan rata-rata nilai koefisien variasi untuk heritabilitas bobot tetas adalah 0.01.

#### Heritabilitas Bobot Badan umur seminggu

Nilai heritabilitas bobot badan umur 1 minggu berdasarkan korelasi fullsib hasil persilangan antara pejantan ayam kampung dan betina ayam leghorn strain isa brown yang diperoleh pada penelitian ini disajikan pada tabel 8.

Tabel 8. Nilai heritabilitas bobot badan umur 1 minggu berdasarkan korelasi fullsib

| P      | A     | B     | C     | Total |
|--------|-------|-------|-------|-------|
| 1      | 0.52  | 0.52  | 0.51  |       |
| 2      | 0.51  | 0.54  | 0.50  |       |
| 3      | 0.56  | 0.55  | 0.52  |       |
| 4      | 0.55  | 0.54  | 0.54  |       |
| Total  | 2.13  | 2.16  | 2.08  | 6.37  |
| Rataan | 0.535 | 0.538 | 0.518 | 0.530 |
| Stdev  | 0.024 | 0.013 | 0.017 | 0.018 |
| Covar  | 0.044 | 0.023 | 0.033 | 0.034 |

Berdasarkan tabel 8 diatas, nilai heritabilitas bobot badan umur seminggu ayam hasil persilangan disetiap populasinya adalah 0.53, 0.54, dan 0.52. Rataan seluruh bobot telur populasi adalah 0.53. Hal ini

menunjukkan angka pewarisan sifat yang diwarisi oleh keturunannya disebabkan oleh genetic, sehingga kecil kemungkinan pengaruh dari pada lingkungan itu sendiri. Standar deviasi dari nilai heritabilitas bobot badan umur 1 minggu tidak jauh berbeda dengan nilai heritabilitas bobot telur dan bobot tetas. Nilai standar deviasi untuk angka pewarisan sifat ini adalah 0.02, 0.01, dan 0.02 dengan rata-rata standar deviasi nilai heritabilitas bobot badan umur 1 minggu adalah 0.01. Koefisien variasi dari nilai heritabilitas bobot badan umur 1 minggu di tiap - tiap pejection sesuai tabel 8 adalah 0.04, 0.02, dan 0.04 dengan rata-rata nilai koefisien variasi untuk heritabilitas bobot badan umur 1 minggu adalah 0.02.

#### KESIMPULAN

Heritabilitas bobot telur hasil persilangan memiliki rata-rata  $0.53 \pm 0.01$ , koefisien variasinya 0.02. Bobot tetas  $0.53 \pm 0.01$  dengan koefisien variasinya 0.01. Heritabilitas bobot badan ayam umur seminggu  $0.53 \pm 0.01$  dengan koefisien variasinya 0.02.

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