

ABSTRAK

KORELASI DAN REGRESI ANTARA BOBOT BADAN, LINGKAR SKROTUM DAN VOLUME SEMEN DOMBA EKOR TIPIS (*Ovis aries*) (STUDI KASUS DI *TEACHING FARM* JURUSAN PETERNAKAN, FAKULTAS PERTANIAN, UNIVERSITAS LAMPUNG)

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Penelitian ini bertujuan untuk menambah informasi mengenai korelasi dan regresi antara bobot badan (BB) dan lingkaran skrotum (LS), bobot badan (BB) dan volume semen (VS), dan lingkaran skrotum (LS) dan volume semen (VS) domba Ekor Tipis (*Ovis aries*) sebagai kriteria pemilihan pejantan unggul. Penelitian ini dilaksanakan pada November--Desember 2023, di Teaching Farm Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Penelitian ini menggunakan metode *purposive sampling* dengan menggunakan 18 ekor domba jantan, dengan pengukuran BB, LS, dan VS. Data yang diperoleh ditabulasi dan dianalisis dengan program R. Hasil penelitian menunjukkan bahwa terdapat korelasi yang kuat antara BB dan LS Domba Ekor Tipis sebesar 0,72 dengan persamaan regresi $LS = 5,6827 + 1,0850BB$ dan koefisien determinasi $R^2 = 0,52$, terdapat korelasi yang sangat rendah antara BB dan VS ekor domba Tipis sebesar 0,14 dengan persamaan regresi $VS = 0,36835 + 0,03014BB$ dan koefisien determinasi $R^2 = 0,02$ dan terdapat korelasi yang sangat rendah antara LS dan VS ekor Domba Ekor Tipis sebesar 0,04 dengan persamaan regresi $VS = 0,997436 + 0,006794LS$ dan koefisien determinasi $R^2 = 0,002$

Kata Kunci: Bobot badan, Domba Ekor Tipis, Lingkaran skrotum, Spermatozoa, Volume semen

ABSTRACT

CORRELATION AND REGRESSION BETWEEN BODY WEIGHT, SCROTUM CIRCUMFERENCE AND SEMEN VOLUME OF THIN-TAILED SHEEP (*Ovis aries*) (CASE STUDY AT TEACHING FARM DEPARTMENT OF ANIMAL, FACULTY OF AGRICULTURE, LAMPUNG UNIVERSITY)

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This study aims to add information regarding the correlation and regression between body weight (BW) and scrotal circumference (SC), body weight (BW) and semen volume (SV), and scrotal circumference (SC) and semen volume (SV) of Thin-tailed Sheep (*Ovis aries*) as a criterion for selecting superior males. This research was carried out in November--December 2023, at the Teaching Farm, Department of Animal Husbandry, Faculty of Agriculture, University of Lampung. This research used a purposive sampling method using 18 rams, with measurements of BW, SC, and SV. The data were tabulated and analyzed using the R program. The results showed that there was a strong correlation between BW and SC of Thin-Tailed Sheep of 0.72 with the regression equation $SC=5,6827+1,0850BW$ and coefficient of determination $R^2 = 0,52$, there was a very low correlation between BW and SV of thin-tailed sheep of 0,14 with the regression equation $SV=0,36835+0,03014BW$ and the coefficient of determination $R^2 = 0,02$ and there was a very low correlation between the SC and SV of thin-tailed sheep of 0.04 with the regression equation $SV = 0,997436+0,006794 SC$ and coefficient of determination $R^2=0,002$.

Keywords: Body weight, Semen volume, Thin-tailed sheep, Scrotal circumference, Spermatozoa.