

## ESTIMASI NILAI HERITABILITAS *AVERAGE DAILY GAIN* PRA SAPIH DOMBA EKOR GEMUK DI PT HRL INTERNASIONAL, PACET, MOJOKERTO, JAWA TIMUR

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### INTISARI

Penelitian ini bertujuan untuk mengestimasi nilai heritabilitas pertambahan bobot badan pra sapih atau *Average Daily Gain* (ADG) pra sapih pada Domba Ekor Gemuk (DEG) di PT HRL Internasional, Pacet, Mojokerto, Jawa Timur. Data yang digunakan adalah data silsilah, bobot lahir dan bobot sapih DEG di PT HRL Internasional, Pacet, Mojokerto, Jawa Timur. Data yang diperoleh dikoreksi terhadap jenis kelamin, tipe kelahiran dan umur sapih. Estimasi nilai heritabilitas ADG Pra sapih DEG menggunakan data saudara tiri seapak (*Paternal halfsib* correlation) dengan pemisahan komponen ragam menggunakan analisa sidik ragam acak lengkap pola searah (*Completely Randomized Design One-way Classification*). Estimasi nilai heritabilitas ADG Pra sapih DEG menggunakan data saudara kandung (*Fullsib* correlation) dengan pemisahan komponen ragam menggunakan analisa sidik ragam acak lengkap pola searah (*Completely Randomized Design One-way Classification*) dan analisa sidik ragam rancangan acak lengkap pola tersarang (*Completely Randomized Nested Design*). Estimasi nilai heritabilitas ADG pra sapih dan ADG pra sapih terkoreksi DEG di PT HRL Internasional menggunakan saudara tiri seapak adalah  $0,27 \pm 0,26$  dan  $0,25 \pm 0,16$ . Estimasi nilai heritabilitas ADG pra sapih DEG di PT HRL Internasional menggunakan saudara kandung dengan analisa sidik ragam acak lengkap pola tersarang adalah sebesar  $0,77 \pm 0,53$  ( $h^2_s$ );  $0,93 \pm 1,89$  ( $h^2_D$ );  $0,85 \pm 2,10$  ( $h^2_W$ ) sedangkan estimasi nilai heritabilitas ADG pra sapih terkoreksi DEG di PT HRL Internasional menggunakan saudara kandung dengan analisa sidik ragam acak lengkap pola tersarang sebesar  $0,76 \pm 0,52$  ( $h^2_s$ );  $0,96 \pm 1,85$  ( $h^2_D$ );  $0,86 \pm 1,00$  ( $h^2_W$ ). Nilai pewarisan ADG pada domba ekor gemuk tergolong tinggi.

(Kata kunci :Heritabilitas, Berat Lahir, Berat Sapih, Average Daily Gain, Domba Ekor Gemuk)

**ESTIMATED OF HERITABILITY FOR *AVERAGE DAILY GAIN* PRE  
WEANING OF FAT TAILED SHEEP AT PT HRL  
INTERNASIONAL, PACET, MOJOKERTO,  
EAST JAVA**

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**ABSTRACT**

The purpose of this study was to estimate the heritability value pre weaning average daily gain of fat tailed sheep in PT HRL Internasional, Pacet, Mojokerto, East Java. Data used from progeny, weight of birth and weaning weight of fat tailed sheep in PT HRL Internasional, Pacet, Mojokerto, East Java. Data obtained were corrected from gender, type of birth and weaning of age. Estimated of heritability for pre weaning average daily gain of fat tailed sheep used Paternal Correlation. Separation of variances used Completely Randomized Design One-way. Estimated of heritability for pre weaning average daily gain of fat tailed sheep used Fullsib Correlation. Separation of variances used Completely Randomized Design One-way Classification and Completely Randomized Design Nested Design analysis. Estimated of heritability for pre weaning average daily gain and pre weaning average daily gain corrected of fat tailed sheep in PT HRL Internasional, Pacet, Mojokerto, East Java used Paternal Halfsib Correlation was  $0,27 \pm 0,26$  and  $0,27 \pm 0,26$ . Estimated of heritability for pre weaning average daily gain of fat tailed sheep in PT HRL Internasional, Pacet, Mojokerto, East Java used Halfsib Correlation with Completely Randomized Nested Design analysis were  $0,77 \pm 0,53$  ( $h^2_s$ );  $0,93 \pm 1,89$  ( $h^2_D$ );  $0,85 \pm 2,10$  ( $h^2_W$ ), whereas estimated of heritability for pre weaning corrected average daily gain of fat tailed sheep in PT HRL Internasional, Pacet, Mojokerto, East Java used Halfsib Correlation with Completely Randomized Nested Design analysis were  $0,76 \pm 0,52$  ( $h^2_s$ );  $0,96 \pm 1,85$  ( $h^2_D$ );  $0,86 \pm 1,00$  ( $h^2_W$ ).. The heritability of pre weaning average daily gain of fat tailed sheep was classified to high.

(Key Words : Heritability, Weight of Birth, Weight of Weaning, Pre Weaning Average Daily Gain, Weaned Weight, Fat Tailed Sheep)