

Analisis genetik dan fenotip sifat produksi dan reproduksi ayam merawang

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Abstrak

Merawang chicken was a local chicken from Bangka Belitung Island, South Sumatera, with a special characteristic an uniform of feather colour by squeezing chocolate or golden in males and also females. The study was conducted to investigate the genetic and phenotype traits of production and reproduction of Merawang chicken. Fourty five males and thirty females of 21 - 26 weeks of age from identified parents were used in this experiment. The observed female variables were body weight, sexual maturity, egg production, fertility and hatchability. The male variables were body weight, sexual maturity, volume of semen, motility and concentration of spermatozoa. Semen were collected once a week by Burrows and Quinn methods. The data were analyzed by Burrows and Quinn methods. The data were analyzed by variance analyses of CRD and nested design to find out variance and covariance components. The results showed that the females variabilities of sexual maturity, body weight, egg production, fertility and hatchability were 8.07%, 10.55%, 24.82%, 38.87% and 19.98%, repectively. The males variabilities of sexual maturity, body weight, volume of semen, motility and concentration of spermatozoa were 4.96%, 14,21%, 42.50%, 7.12% and 45.16%, repectively. The heritabilities of females on sexual maturity, body weight, egg production, fertility and hatchability were 0.311, 0.509, 0.927, 0.677 and 0.314, respectively. The heritabilities of males on sexual maturity, body weight, volume of semen, motility and concentration of spermatozoa were 0.607, 0.393, 0.200, 0.203 and 0.011, respectively.