

畜試白絲羽烏骨雞之選育

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行政院農業委員會畜產試驗所保留之白絲羽烏骨雞，具烏骨雞品種特徵，小型體型，產蛋數佳，肉質鮮美等特性，以白絲羽烏骨雞族群，進行母雞產蛋數選育。選育至 G12 代近親係數公雞與母雞分別為 0.174 與 0.170。平均 16 週齡體重公雞與母雞分別為 1,379 與 1,013 公克。平均母雞初產日齡 144 日齡，初產體重為 1,264 公克，初產蛋重 29.3 公克，40 週齡蛋重 41.5 公克，40 週齡體重 1,667 公克。至 40 週齡產蛋數由 G1 代為 68 枚，選育 G12 代則為 104 枚，其表型值累計改進量為 36 枚，遺傳值累計改進量估值則為 21.4 枚。平均 72 週齡產蛋數 237 枚，72 週齡母雞體重為 1,515 公克。分析選育十二世代產蛋性能之遺傳率至 40 週產蛋數為 0.30，40 週齡體重為 0.76，40 週齡蛋重 0.68，初產蛋重為 0.13，初產體重為 0.73，初產日齡為 0.52。本品種於民國 103 年獲得行政院農業委員會品種命名登記委員會之認同，正式登記為畜試白絲羽烏骨雞，可作為高產蛋純系育種或商業雜交生產之烏骨雞種原或作為高產蛋商用烏骨雞蛋之生產。

關鍵語：烏骨雞、產蛋性能、產蛋數

Selection and Breeding of LRI White Silky Chicken

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The Livestock Research Institute (LRI), Council of Agriculture has preserved the white silky chicken with the silky chicken's breed characteristics of small body size, good egg production performance and good meat quality. The population of white silky chicken was selected based on females' egg production. The inbreeding coefficient at G12 for males and females were 0.174 and 0.170, respectively. The average body weight at 16 weeks of age for males and females were 1,379 and 1,013 g, respectively. For females, the age, body weight and egg weight at the first egg was 144 days, 1,264 g and 29.3 g, respectively; Egg weight and body weight at 40 weeks of age were 41.5 g and 1,667 g, respectively. Egg production number at 40 weeks of age was 68 eggs for G1 and 104 eggs for G12. The phenotype accumulated improvement was 36 eggs. The evaluation of genotype accumulated improvement was 21.4 eggs. The average egg production number and females' body weight at 72 weeks of age were 237 eggs and 1,515 g. For 12 generations, the heritability of egg production number, body weight and egg weight at 40 weeks of age were 0.30, 0.76 and 0.68, respectively; Egg weight, body weight and age at the first egg were 0.13, 0.73 and 0.52, respectively. This breed was named and registered by the Council of Agriculture as LRI Silky Chicken in 2014. It can be used for egg production line for inbreeding or commercial cross breeding production.

Key Words: Silky chicken, Egg production performance, Egg production number