

EFFECT OF SOME MENDELIAN GENES ON BODY WEIGHT AND EGG
PRODUCTION IN THE FOWL

BY

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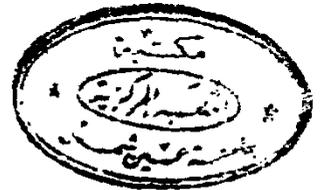
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ABSTRACT

This study was carried out at Poultry Farm in Animal Production Department, Faculty of Agriculture, Ain Shams University, Using 101, 60, 82 and 49 for genotypes females DW-Nana, DW-nana, dw-Nana and dw-nana respectively, while the numbers offspring of normal size males were 62, 147 and

48 for NaNa, Nana and nana genotypes respectively in the first generation. On the other hand, the numbers offspring females in the second generation were 25, 9, 20 and 11 for Dw-Nana, DW-nana, dw-Nana and dw-nana respectively. The results indicated that:

Mortality rate was higher for normal females than dwarf ones between 4 and 12 weeks, also it was higher for naked neck birds, while embryonic mortality for females of NaNa genotype were higher than that of Nana and nana genotypes.

With regard to the relative depressive effect due to the dw gene on body weight in both naked neck and normal feathered chicks in the first and second generations, it could be observed that Nana was higher than that of nana genotype. For the effect of naked neck gene on body weight showed that Na gene increased the body weight only in normal birds.

With respect to feed efficiency, it is observed that the dwarf gene and naked neck gene led to better results causing higher feed efficiency compared with normal birds (Dw-nana)

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