

Protein consumption and efficiency of Kedu, Arab and their crossing chickens fed diets with different protein levels.

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Submission date: 25-May-2023 03:10PM (UTC+0700)

Submission ID: 2101479657

File name: ir_crossing_chickens_fed_diets_with_different_protein_levels.pdf (126.8K)

Word count: 705

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Journal article : *Egyptian Poultry Science Journal* (/cabdirect/search/?q=do%3a%22Egyptian+Poultry+Science+Journal%22) 2011 Vol.31 No.3 pp.491-500 ref.41

Abstract : The experiment was aimed to determine protein consumption and efficiency of Kedu, Arab and their cross chickens fed diets with different levels of protein. Seven week-old of Kedu Arab and their cross chickens, were used in this experiment. The experimental birds were divided into 3 groups of chicken based on body weight. The chickens were reared in experimental house containing 27 pens (1×0,5×0,5 m). Experimental diets were formulated to contain 16, 18, and 20% protein but having the same calorie (2.800 kcal/kg). The experimental design was Split Plot Design, the main plots were three local chickens (Kedu, Arab and their crossing chickens) and the subplots were protein levels (16, 18 dan 20%). Each treatment contains three replicates of 8 chickens. The parameters measured were protein consumption, nitrogen retention and protein efficiency ration. The result showed that protein consumption was higher at 18 and 20% protein levels. Protein efficiency was higher at 16% protein level, but nitrogen retention was not significantly different among all protein levels. ⁴ can be concluded that 16% protein level was the optimal for Kedu, Arab and their cross chickens during the period from 7 to 13 weeks of age.

ISSN : 1110-5623 (/cabdirect/search/?q=sn%3a%221110-5623%22)

URL : <http://www.epsae.gypt.com/.../7-1278.pdf> (http://www.epsae.gypt.com/pdf/2011_september/7-1278.pdf)

Record Number : 20113318743

Publisher : Egyptian Poultry Science Association (/cabdirect/search/?q=pb%3a%22Egyptian+Poultry+Science+Association%22)

Location of publication : Alexandria (/cabdirect/search/?q=lp%3a%22Alexandria%22)

Country of publication : Egypt (/cabdirect/search/?q=cp%3a%22Egypt%22)

Language of text : English (/cabdirect/search/?q=la%3a%22English%22)

Indexing terms for this abstract:

1 **Organism descriptor(s)** : birds, fowls

Descriptor(s) : breeds, crossbreds, crosses, diets, domestic animals, feed formulation, feeds, fowl feeding, livestock, native livestock, nitrogen retention, poultry, protein content, protein efficiency ratio, protein intake

Identifier(s) : animal breed, animal breeds, chickens, domesticated birds, feeding stuffs

Geographical Location(s) : Indonesia

Broader term(s) : vertebrates, Chordata, animals, eukaryotes, Gallus gallus, Gallus, Phasianidae, Galliformes, birds, APEC countries, ASEAN Countries, high Human Development Index countries, lower-middle income countries, South East Asia, Asia

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