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Growth Performance of Pantja Goats under Field Condition

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A study was conducted under AICRP on Uttarakhand goat project and the survey area was divided in to four clusters viz. Bara, Tilpuri, Kunda and Bhimtal covering U. S. Nagar and Nainital districts of Uttarakhand. The measurement of Pantja goat on different growth parameters were taken under field condition. A total of 372 kids have been recorded. The average values for body weight were observed as 1.89 ± 0.12 , 9.89 ± 0.88 , 13.14 ± 0.76 , 16.68 ± 1.09 and 20.07 ± 1.79 kg, respectively at birth, 3, 6, 9 and 12 months of age. Corresponding values for body height were 28.39 ± 1.58 , 47.94 ± 3.80 , 51.74 ± 2.75 , 56.15 ± 3.57 and 59.93 ± 4.83 cm, for body length 26.74 ± 1.58 , 44.32 ± 3.51 , 47.83 ± 2.52 , 51.26 ± 3.26 and 54.77 ± 4.44 cm and for chest girth 29.01 ± 1.64 , 48.98 ± 3.85 , 53.16 ± 2.83 , 57.13 ± 3.71 and 60.52 ± 4.89 cm, respectively at birth, 3, 6, 9 and 12 months of age. The growth parameter recorded so far will be helpful for selecting future buck and doe for producing the next generation.

Key words: Growth, Pantja goat, Field condition

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Growth, Egg Production and Egg Quality Traits in Kadaknaath in Chhattisgarh

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Kadaknaath (KN) is an important Indian reared poultry breed which reveals appreciable degree of resistance to diseases compared with other exotic breeds of fowl in its natural habitat in free range. These birds are also resistant to extreme climatic conditions like summer heat and cold winter stress and thrive very well under adverse environment like poor housing, poor management and feeding. KN is a dual purpose bird with fibromelanosis non-inhibitor dermal melanin and slow feathering character. The study on growth, egg production and egg quality traits was conducted on 100 Kadaknath birds, reared under deep litter system in the College of Veterinary Science & Animal Husbandry, Anjora, Durg (Chhattisgarh) from January 2016 to December 2016. The body weights at 0, 4, 6, 8 and 10 weeks of age were, 25.08, 90.41, 154.5, 228.99 and 307.34 gm, respectively. The weekly body weight gain ranged from 12.98 gm, during 1st week to 45.23 gm during 10th week. The rate of gain in body weight gradually increased from 1st to 10 weeks of age. The age of sexual maturity was observed as 141 days. Total egg production per bird in 44 weeks of laying period was recorded as 57.31 eggs. The mean egg weight, albumin weight, yolk weight and egg shell weight were found as 43.98, 23.38, 16.26 and 5.40 g respectively. The egg shell thickness was observed as 0.40mm. The mean yolk height, albumin height, yolk length and albumin length were recorded as 18.78, 6.88, 3.99 and 8.14 mm, respectively. The average hatchability and fertility from 22 week to 44 week were found as 73.28 and 93.45%, respectively. The phenotypic correlations amongst weekly body weights from 0 day to 10 week, were found to be positive and high, ranging from 0.40 to 0.95.

Key words: Growth, Egg production, Egg quality, Kadaknath