

Proximate Analysis of Commercial Chick Crumbles in the Diet of White Leghorn

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Abstract—This study was conducted in Department of Animal Husbandry and Dairy Science, Dapoli to evaluate the proximate composition of commercial chick crumbles in the diet of White Leghorn. The objective of the present study was to assess the nutritional aspects (with emphasis on its importance in animal diet as a feed) of commercial chick crumble and generate comprehensive technical information for scholars who wish to study the feeds in detail as a feed ingredient in poultry. There have been numerous attempts to improve the nutritional value of poultry feed through the implementation of various processing techniques. The general objective of poultry nutrition is to maximize the economic production performance of birds. Diets are formulated to provide specific level of nutrients that are needed for optimum performance. The samples of the commercial chick crumbles were analyzed for the proximate principles viz., Dry matter, Crude protein, Crude fibre, Ether extract, Nitrogen free extract, Total ash, Acid insoluble ash (AOAC, 1995). The mean values showed that commercial chick crumbles had high protein (20.58 %), whereas the figures for organic matter, dry matter, moisture, ether extract, crude fibre, nitrogen free extract, total ash, acid insoluble ash, calcium and phosphorus were recorded as 94.60, 88.82, 11.18, 3.46, 8.62, 50.76, 5.40, 2.20, 1.16 and 0.49 per cent, respectively. It is concluded that commercial chick crumbles is good source of nutrients for the birds as basal feed.