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Economic Value of Poultry Feed Supplements in White Leghorn Feeding

ORIGINAL ARTICLE



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Abstract

Poultry feed supplement used as a growth promoter and production gaining production performance of layer. Lepta milk forte and Conitone are help in the enhance of economic value of layer bird feed it has more minerals and vitamias and help in increased feed consumption and feed conversion ratio in birds. Lepta milk forte is blend of Ca, P, Vit. B12, D3 and aqueous extract from Jivant, Shatavari, Jatamansi and Kalongi, Concitone contains Vitamin A, D3, E, C, B2, B6, B12, Nicotinamide, D-penthenal, elemental sodium, Potassium, and chloride.

Key Words

Leptamilk, Leghorn, Layer, Economic value, Feed conversion.

Introduction

The effect of Lepta milk forte and Concitone a liquid supplement manufactured by Concept India Ltd. supplemented in layer diet was studied in an experiment lasting 100 days. Lepta milk forte is blend of Ca, P, Vit. B12, D3 and aqueous extract from Jivant, Shatavari, Jatamansi and Kalongi, Concitone contains Vitamin A, D3, E, C, B2, B6, B12, Nicotinamide, D-penthenal, elemental sodium, Potassium, and chloride. These constituents of this liquid are expected to maintain normal growth optimum egg production and good health, and improve the quality of feed and feed conversion efficiency in poultry. Therefore, the present investigation was under taken to evaluate the effect of Leptamilk forte and Concitone on egg production and benefit feed cost ratio in white leghorn birds.

Materials and Methods

One hundred twenty white leghorn birds at the age of seven month from the same hatch lot selected randomly and divided into four groups, 30 birds each Group-I was control group-II was supplemented with 20ml. Leptamilk forte per 100 birds/day, group-III was provided with 10 ml. Concitone per 100 birds/day and group-IV was given 10 ml. Leptamilk forte with 5.0 ml Concitone per 100 birds/day. Birds were kept in cages for individual egg production records for 100 days. These birds were provided layer feed from U.P. Agromade, Lucknow. Feed supplements were provided through fresh drinking water. The data were analysed as per Snedecor and Cochran 1968.

Results and Discussion

The results presented in Table-1. Let out that the birds of treatment groups consumed more feed than that of control group. The differences between group-IV (121.50 (109 gm) and control group I (117.27

(0.96 gm) was statistically significant ($P < 0.05$). It may be due to constituents of Leptamilk forte and Concitone which favourably stimulate the liver function and appetite of birds (Verma and Husain 1984) and (Pal. 1998).

The egg production was higher in treated groups. Among the treatment groups, group IV had showed significantly ($P < 0.01$) increased in egg production during 100 days production records which supplemented @ 10 ml. Leptamilk fort and 5ml. Concitone per 100 birds/ day. Chaudhary (1991) observed the Livol used in the diet of layer birds increased egg production. It is also evident that better feed conversion efficiency in the treated groups due to more egg production as compared to untreated group. Similar findings were also reported by (Sunder et al. 1990) and (Pal 1998).

These results indicated the maximum profit in G-IV followed by group II, III and I (control) respectively. The net profit is due to improved livability, egg production and feed conversion efficiency in treated white leghorn birds as compared to control bird. Similar findings had been reported by Pal, (1998) in white leghorn birds by feeding Leptamilk forte.

Hence it may be suggested that supplementation of Lepta milk fort and Concitone liquid either in combination or alone profitable. Furthermore, supplementation of both supplements will be more beneficial than fed either alone.

Table 1: Profitability of different level feeding Leptamilk forte and Concitone to layer birds

S.No.	Particulars	G-I (Control)	G-II Leptamilk forte only	G-III Concitone only	G-IV Leptamilk forte+ Concitone
1	Feed consumption/ day/bird(gm)	117.27b (0.96)	120.00b (0.98)	119.17ab (0.93)	121.50a (1.09)
2	% of individual egg production/bird/100 days	52.07c (1.63)	72.50ab (1.72)	70.00b (1.35)	76.80a (1.56)
3	Av. feed Conversion efficiency gm/egg	229.87a (5.52)	167.34bc (4.23)	171.91b (3.25)	159.73c (2.83)
4	Total feed consumed in 100 day(Kg)	351.80	360.00	357.50	364.50
5	Cost of feed @ Rs.21/Kg	7387.80	7560.00	7507.50	7654.50
6	Cost of Leptamilk forte @ Rs. 108.30 (460 ml) and Concitone @ Rs. 78.00 (30 ml.)	-	141.27	780.00	466.56
7	Total Cost Rs.	7387.80	7701.27	8287.50	8121.06
8	Gross Income:	-	-	-	-
(i)	Total egg production	1562	2775	2100	2304
(ii)	Egg cost @ Rs. 5.00/egg	7810.00	13875.00	10500.00	11520.00
9	Net profit (Rs.)	422.20	6173.73	2212.50	3398.94
10	Cost of Production/egg (Rs.)	4.73	2.77	3.94	3.52
11	Cost of benefit ratio	1:1.05	1:1.80	1:1.26	1:1.41

Conclusion

In nut shell poultry farming is a lucrative enterprise, especially layer bird because feed conversion efficiency is very good compare to other livestock. Layer bird consume 2.97 kg and body weight gain nearly 1 kg, pullet should be ready for laying in 18-20 weeks age and significant rearing cost to other bird. Supplemented mixed feed also create good quality eggs and reduce cost of eggs production.

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