

COST OF PRODUCTION OF DAY OLD BROILER CHICKS IN HATCHERIES OF GREATER GUWAHATI AREA

R. BURAGOHAIN, J. K. TALUKDAR, D. SAPCOTA, J. HUSSAIN¹ AND S. K. LASKAR²
Department of Poultry Science, College of Veterinary Science,
Khanapara, Guwahati-781022 Assam

Received : 28.01.2014

Accepted: 05.02.2014

ABSTRACT

The cost of production of day-old chicks was estimated in hatcheries located in an around Guwahati city of Kamrup (Metro) district in Assam. The total 17 numbers of hatcheries were selected for the study. The data were collected for a period of one year from the hatchery owners and intermediaries, using a set of structured interview schedule specially prepared for the study. The study revealed that the cost of production of day-old chicks in different hatcheries ranged from Rs.18.32 to Rs.20.08. From the overall observation it could be concluded that the highest cost of production per chick recorded was Rs.20.08 and the lowest cost of production per chick recorded was Rs. 18.32.

Keywords : Chicks, Cost of production, Hatcheries.

Broiler farming is surging ahead tremendously during the past few decades resulting much improvement in the socio-economic status of millions of people both in rural and urban areas of the country. Moreover, it has increased the employment opportunity amongst the rural poor's. Day-old chicks with high productive performance in terms of optimum growth are necessary to fulfil the demand of increasing broiler industry. Fertile eggs may fail to develop into chicks due to of various reasons like improper handling, storage, sanitation and transportation¹. Increase in duration of storage increases incubation duration and decreases hatchability and chick quality². Any attempt to reduce such loss will influence the number of chicks and cost of production of day old chicks. Therefore the

present study has been envisaged to estimate the cost of production of day-old chicks in different hatcheries in and around the Guwahati city.

An investigation was undertaken to study Cost of production of day old broiler chicks in the hatcheries in and around the Guwahati city. Total 17 numbers of established hatcheries were included for the purpose of this study for the whole year. The required information and data were collected from the hatchery owners and intermediaries involved in production, using a set of structured interview schedule specially prepared for the study. To calculate the economy, the various cost components such as electricity bill, diesel cost for generators, labour wages, taxes, packaging material cost, transportation cost and miscellaneous cost were considered. The data collected were analyzed as per the method by SAS Enterprise guide (2008)⁴.

The costs of production of day-old broiler chicks in different hatcheries are presented in the Table 1. The Analysis of variance revealed that

E-mail ID of corresponding author :

rana.buragohain@gmail.com,

¹Department of LPM

²Department of LPT

there was highly significant difference ($P<0.01$) in cost of production of day-old chicks between different hatcheries. The mean cost of production of chicks ranges from Rs.18.31 to Rs.20.08. The mean cost of production of day old chicks was highest in the MMNJ hatchery (Rs.20.08) and lowest in Alpine hatchery (Rs.18.31). The significant differences in the cost of production of day-old chicks amongst different

hatcheries was due to the variations observed in inputs considered while calculating cost of production viz., purchasing cost of hatching eggs, labour wages, transportation charges etc. The findings of the present investigation were in conformity with other workers³, who also reported that the cost of production was affected due to unavailability of domestic poultry hybrids and grandparent stocks; the sector is fully dependent on the import.

Table 1. THE COST OF PRODUCTION OF DAY-OLD CHICKS IN DIFFERENT HATCHERIES

Sl. No.	Name of hatcheries	MEAN \pm SE
1.	Arambagh hatcheries	19.35 ^{adfg} \pm 0.23
2.	Amrit hatcheries	19.42 ^{adfg} \pm 0.34
3.	Alpine hatcheries	18.32 ^b \pm 0.34
4.	Classic groups	19.09 ^{acfg} \pm 0.29
5.	Dynamic hatcheries	18.48 ^{bc} \pm 0.35
6.	D.R farms	19.84 ^{dfg} \pm 0.32
7.	Guwahati Enterprise	19.35 ^{adfg} \pm 0.27
8.	Lotus chicks Pvt. Ltd.	18.72 ^{abfg} \pm 0.27
9.	Luit hatcheries	18.55 ^{bcfg} \pm 0.26
10.	Loknath hatcheries	18.59 ^{bcfg} \pm 0.28
11.	MMNJ hatcheries	20.08 ^f \pm 0.32
12.	Poly poultry hatcheries	19.58 ^{fg} \pm 0.29
13.	Release hatcheries	19.24 ^g \pm 0.27
14.	Shivam hatcheries	20.00 ^f \pm 0.36
15.	Sundaram hatcheries	19.94 ^{dfg} \pm 0.32
16.	Unique hatcheries	18.97 ^{abco} \pm 0.41
17.	UD hatcheries	19.64 ^{fg} \pm 0.32

Means with at least one common superscript does not differ significantly from each other at 1% level of significance.

Production of day old broiler chicks

From the above study it can be concluded that highly significant differences exists in the cost of production of day-old chicks in different hatcheries in

Guwahati city. The cost of production of day old chicks ranges from Rs.18.31 to Rs.20.08.

REFERENCES

1. Potter, M.A.and Bassett, S.M. (2001). Effectsof transportation-induced jarring on ratite embryo development and hatching success.Conservation advisory Science Notes No. 341, Department of Conservation, Wellington.
2. Reijrink, A.,Meijerhof, R., Kemp, B. and Brand, H.(2010).Effects of storage and early incubation conditions on egg characteristics, embryonic development, hatchability and chick quality. Thesis Submitted to Wageningen University.
3. Rodic, V., Peric, L.,Pavlovski, Z. and Milosevic.N.(2010).Improving the poultry sector in Serbia: Major economic constraints and opportunities.*World Poult. J.*, **66** (2)
4. SAS Enterprise Guide, version 4.2. 2008. SAS Institute Inc., Cary, NC, USA.

★ ★ ★