**A REPORT ON**

**MANAGEMENT AND PRODUCTION PERFORMANCE OF HISEX BROWN**

**AT RAHAT POULTRY FARM AT BHUAPUR, TANGAIL**



***A PRODUCTION REPORT***

***BY***

Roll No : 10/57

Intern ID : F-56

Reg. No : 00535

Session : 2009-2010

This report submitted in partial of the requirement for the fulfillment of the degree of Doctor of Veterinary Medicine (DVM).

**Faculty of Veterinary Medicine**

**CHITTAGONG VETERINARY AND ANIMAL SCIENCES UNIVERSITY, KHULSHI, CHITTAGONG-4225**

**October, 2016**

**A REPORT ON**

**MANAGEMENT AND PRODUCTION PERFORMANCE OF HISEX BROWN**

**AT RAHAT POULTRY FARM AT BHUAPUR,TANGAIL**



***A PRODUCTION REPORT***

***BY***

**Roll No : 10/57**

**INTERN ID :F-56**

**REG NO : 00535**

**SESSION : 2009-2010**

This report submitted in partial of the requirement for the fulfillment of the degree of Doctor of Veterinary Medicine (DVM)

**Signature of Supervisor**

Dr. Mukti Borua

Lecturer

Department of Animal Science And Nutrition

Chittagong Veterinary and Animal Sciences University.Khulshi, Chittagong-4225.

**Signature of Author**

Sumaiya Sultana Sweety

Roll. No: 10/57

Registration No.: 00535

Internship ID.: F-56

**October, 2016**

**CONTENTS**

|  |  |  |
| --- | --- | --- |
| **Chapter No** | **Contents** | **Page No** |
|  | Acknowledgement | i |
|  | Abstract | ii |
| 1 | Introduction | 1-2 |
| 2 | Materials and Method | 3 |
| 3 | Results and Discussion | 4-15 |
| 4 | Limitations | 16 |
| 5 | Conclusion | 17 |
| 6 | References | 18-19 |
|  | Appendix | 20-21 |
|  | Biography | 22 |

**List of Table**

|  |  |  |
| --- | --- | --- |
| **Table No** | **Name of the Table** | **Page No** |
| 1 | Temperature management of brooding at Rahat poultry farm | 05 |
| 2 | Lighting schedule | 05 |
| 3 | Intensity of light | 06 |
| 4 | Chart of lighting program of Hisex brown at Rahat poultry farm | 06 |
| 5 | For good production, the following table was followed for Hisex brown at Rahat poultry Farm | 07 |
| 6 | : Definite ration (nutrient, vitamin and minerals) which supplied with some deviation of standard level | 07 |
| 7 | Amino acid and ME/KG according to feed intake in various period of Hisex brown (standard level) | 08 |
| 8 | ME/Kg and temperature in various production level with body weight of Hisex Brown(standard level) | 09 |
| 9 | Percentage (%) of calcium during laying period with feed intake | 09 |
| 10 | Vaccination schedule at Rahat poultry Farm | 10 |
| 11 | Comparison between observation and standard level | 11 |
| 12 | Egg production percentage (Hen day egg production, Hen housed egg production), and mortality rate in 1st week observation (at the age of 38th weeks) | 12 |
| 13 | Egg production percentage (Hen day egg production, Hen housed egg production), and mortality rate in 2nd weeks observation (at the age of 39th weeks) | 13 |
| 14 | Egg production percentage (Hen day egg production, Hen housed egg production), and mortality rate in 3rd week observation (at the age of 40th weeks). | 14 |
| 15 | Egg production percentage (Hen day egg production, Hen housed egg production), and mortality rate in 4th week observation (at the age of 41st weeks) | 15 |

**ACKNOWLEDGEMENTS**

All praises go to the almighty **Allah**, the creator and supreme ruler of the universe, who enabled the author to complete the work successfully.

The author express her sincere gratitude, heart full respect to her supervisor lecturer Dr. Mukti Borua , department of Animal Science and Nutrion, Chittagong Veterinary and Animal sciences University. She has nicely highlighted all the practical points in poultry management in this text.

The author would like to express her gratitude Dr. Mannan (Ex DLO), farm manager. And farm supervisor Md. Shahiddullah for their needful suggestions and cooperations.

I would like to give special thanks to professor **Dr. A.K.M Saifuddin,** Director of External Affair and my honorable dean sir professor Dr. Ahsanul Haque, Chittagong Veterinary and Animal Sciences University for continuing this internship program.

The author respectfully remember her beloved parents, elder brothers, sisters, friends and well wishers. Their inspirations and great sacrifice paved the way to complete this work successfully.

**…………………**

**The Author**

i

**ABSTRACT**

The study was carried out at Rahat poultry farm in Tangail district under Bhuapur upajilla for a period of one month (September to October’ 2016) to observe management of housing, feeding, lighting, production performance, disease control practices of 7572 layer birds of Hisex Brown under housing system. During this period, data on production performance (i.e. body weight, body weight gain, feed intake, hen housed egg production ,hen day egg production and mortality rate) within two flocks from peak production (38th to 41st weeks) and then compared with the standard level.

From the standard level the percentage of egg production of HISEX brown are 93%, 93%, 92% and 92% respectively at the age of 38th, 39th, 40th and 41st weeks of age stbut the observed percentage of Hen day egg production( %HDEP) in the farm were 86.20%, 85.57%, 85.12% and 84.75% and percentage Hen housed egg production (%HHEP) were 86.29%, 85.51%, 85.05%, 84.62% respectively . Again it was found that the mortality rate were 0.026%, 0.052%, 0.066% and 0.066% in that farm during study period respectively at the age of 38th, 39th, 40th and 41st weeks, whether the standard levels are 1.6%, 1.7%, 1.8% and 1.9% which is higher than the result. Amount of feed intake per day is 120 gm which is similar to the standard level. In case of weight gain the standard levels are 1.910 kg, 1.915 kg, 1.920 kg and 1.930 kg per bird respectively at the age of 38th, 39th , 40th and 41st weeks; The weight gain of birds were 1.85 kg, 1.85 kg, 1.90 kg and 1.90 kg of that farm, which are almost same. All the observation and study during experimental period showed that the average Hen day egg production was 85.41% and average Hen housed egg production was 85.37%. from 38th to 41st week of age of the hens. The peak Hen day egg production and Hen housed egg production achieved at 38th week of age which was 86.20% and 86.29% respectively.

**Key words**: Hisex brown, management, production performance.

ii