

## Table of Contents

List of Figures .....	iii
List of Tables .....	iii
ACKNOWLEDGEMENTS .....	iv
Abstract .....	v
Chapter I .....	1
Introduction .....	1
Chapter II .....	3
2.1. Location of study area .....	3
2.2. Duration of study .....	3
2.3. Sampling Strategy .....	3
2.4. Data collection process and tools .....	3
2.5. Data analysis .....	3
Chapter III .....	4
3.1. Rearing of backyard poultry .....	4
3.2. Population of poultry .....	5
3.3. Poultry rearing system .....	6
3.4. Feeds and feeding of poultry .....	7
3.5. Housing of poultry .....	8
3.6. Use of feeder and waterer .....	9
3.7. Productivity of poultry .....	10
3.8. Disease of poultry .....	13
3.9. Vaccination .....	14
3.10. Mortality of poultry .....	15
3.11. Source of poultry .....	16

3.12. Constraints of backyard poultry rearing .....	17
3.13. Recommendation to improve backyard poultry .....	17
Chapter IV.....	18
Conclusion.....	18
Chapter V .....	19
References.....	19
Chapter VI.....	22
Appendix.....	22
Chapter VII .....	23
Brief Biography of the student.....	23

## **List of Figures**

Figure 1: Rearing pattern of backyard poultry.....	4
Figure 2: Different poultry breeds reared by farmers (%) .....	5
Figure 3: Poultry population in backyard rearing system.....	6
Figure 4: Ingredients used in poultry diet .....	7
Figure 5: Housing system for Chicken and Duck.....	8
Figure 6: Use of feeder and waterer.....	9
Figure 7: Broody hen in backyard rearing system .....	11
Figure 8: Use of vaccine in poultry .....	15
Figure 9: Sources of chicken and ducks.....	16

## **List of Tables**

Table 1: Categories of poultry producers .....	5
Table 2: Housing patterns of poultry .....	6
Table 3: Bedding materials used in poultry houses .....	7
Table 4: Cleaning schedule of poultry houses .....	7
Table 5: Amount of feeds supplied to poultry daily .....	9
Table 6: Productivity of chicken.....	12
Table 7: Productivity of duck .....	13
Table 8: Important diseases of poultry .....	14
Table 9: Mortality (%) of chicken and duck.....	15

## **ACKNOWLEDGEMENTS**

I would like to express my all sorts of praises and thanks to Almighty Allah, Who teaches the use of the pen to man, who bestowed me with the potential and the ability for making a humble contribution and addition to the existing knowledge.

It's my honour to express the heartiest gratitude and deep sense of obligation to my respectable and considerate supervisor Mr. Sohel Rana, Assistant Professor Department of Agricultural Economics and Social Sciences, Faculty of Veterinary Medicine of Chittagong Veterinary and Animal Sciences University for his keen interest and propitious for the successful accomplishment of the present study.

Be sides my advisor, I would respectfully acknowledge to my report committee: Dean Prof. Dr. Md. Ahasanul Hoque, and Prof. Dr. A K M Saifuddin, for their insightful comments and encouragement, but also for the hard question which incented me to widen my research from various perspectives

Last but not the least; I would ever thankful to all my well wishers, family members for their inspiration.

**The Author**

## Abstract

---

This study was conducted in Vhelanagor, Bahadorpur and Paratoli villages under Bancharampur Upazilla of Brahmanbaria district to assess the present status of backyard poultry production system. Data were collected from 75 randomly selected farmers having 25 from each village through face-to-face interview. All the respondents reared deshi chicken and about 63% of them reared deshi duck only. It was also found that highest proportion (63.49%) of farmers reared both chicken and duck together, followed by 22.23% reared only chicken and 14.28% reared duck. The average population per household of chicken and duck were 11.21 and 10.54 respectively. All farmers reared poultry in semi-scavenging system. About 56.52% farmers kept poultry in their dwelling house. Farmers were used boiled rice, rice polish, paddy and broken rice to feed the birds. About 57% farmers were used rice and rice polish to make diet for chicken and ducks. Farmers provided around 53g and 109g supplemental diet to each chicken and duck per day, respectively and about 65% farmers provided this diet twice a day. Majority of farmers did not use feeder and waterer (about 75% and 82% respectively). Age at sexual maturity of Chicken and duck were around 189 days and 195 days, respectively. Adult weight of chicken and duck were 1141.5g and 1625g, respectively. The weights of chicken and duck eggs were 38.77g and 61.20g, respectively. The hatchability of chicken and duck eggs ranged between 69-80% and 76-90% with an average of 76.35% and 82.44%, respectively. Majority of the farmers mentioned that the most prevalent diseases of chicken and duck were New castle and cholera (about 50% and 47%, respectively). A large number of farmers (82.67%) did not vaccinate their poultry. Farmers collected chicks and ducklings from market and neighbor but most of the farmers (48% for chicks and 53% for ducks) incubate eggs under the broody hen. Backyard poultry farmers are low producers and chicken and duck were found to be the most common poultry species reared by the farmers.

---

**Key words:** Backyard poultry, Semi-scavenging system, Mortality