Table of Contents

[List of Figures 3](#_Toc465479165)

[List of Tables 3](#_Toc465479166)

[LIST OF ABBREVIATIONS 4](#_Toc465479167)

[ACKNOWLEDGEMENT 5](#_Toc465479168)

[ABSTRACT 6](#_Toc465479169)

[Chapter I 1](#_Toc465479201)

[Introduction 1](#_Toc465479202)

[Chapter- II 3](#_Toc465479203)

[Methodology 3](#_Toc465479204)

[2.1. Study Area 3](#_Toc465479205)

[2.1.1. Tropography of Magura 3](#_Toc465479206)

[2.2. Study time 4](#_Toc465479207)

[2.3. Data Collection 4](#_Toc465479208)

[2.4. Identification of Genotype 5](#_Toc465479209)

[2.5. Study population 5](#_Toc465479210)

[2.6. Management of cows 5](#_Toc465479211)

[2.7. Breeding methods of cows 5](#_Toc465479212)

[2.8. Availability of feeds and fodders 6](#_Toc465479213)

[2.9. Some Productive parameters 6](#_Toc465479214)

[2.9.1. Calculation of Live Weight (LWT) 6](#_Toc465479215)

[2.9.2. Daily milk yield 6](#_Toc465479216)

[2.10. Some reproductive parameters. 8](#_Toc465479217)

[2.10.1. Age at first heat 8](#_Toc465479218)

[2.10.2. Service per conception 8](#_Toc465479219)

[2.10.3. Age at first calving 8](#_Toc465479220)

[2.10.4. Gestation length 8](#_Toc465479221)

[2.10.5. Average daily milk yield per cow 8](#_Toc465479222)

[2.10.6. Days open 8](#_Toc465479223)

[2.10.7. Calving interval 8](#_Toc465479224)

[2.10.8. Average lactation length 8](#_Toc465479225)

[Chapter-III 9](#_Toc465479226)

[Results 9](#_Toc465479227)

[4.1. Productive performance of crossbreed cows. 9](#_Toc465479228)

[4.2. Reproductive performance of crossbreed cows. 10](#_Toc465479229)

[Chapter-IV 12](#_Toc465479230)

[Discussion 12](#_Toc465479231)

[Chapter-V 14](#_Toc465479232)

[Conclusion and Recommendation 14](#_Toc465479233)

[Chapter-V 15](#_Toc465479234)

[Limitation 15](#_Toc465479235)

Chapter VI………………………………..……………………………….…………16

References………………………………………………………………..….……….16

[Chapter VII 17](#_Toc465479236)

Brief Biography…………………………………………………………………………………….……………………………18

**List of Figures**

[Figure 1: Map of Magura district. 3](#_Toc465478193)

[Figure 2: Data collection from Sreepur dairy farm. 4](#_Toc465478194)

[Figure 3: Housing system of crossbred cows under intensive farming system 7](#_Toc465478195)

# List of Tables

[Table 1: Mean ± standard error of various productive traits in crossbred cows (50% HF × 50% SL & 50% HF × 50% L) 10](#_Toc465478301)

[Table 2: Mean ± standard error of various reproductive traits in crossbreed cows (50% HF × 50% SL & 50% HF × 50% L) 11](#_Toc465478302)

# LIST OF ABBREVIATIONS

|  |  |
| --- | --- |
| Abbreviations | Abbreviations |
| ASM | Age of sexual maturity |
| AI | Artificial insemination |
| BBS | Bangladesh Bureau of Statistics |
| BLW(M) | Male Birth Weight |
| BLW(F) | Female Birth Weight |
| BLW | Bull Weight |
| BLW | Bullock Weight |
| CCBDF | Central Cattle Breeding and Dairy Farm |
| CI | Calving Interval |
| DMY | Dairy Milk Yield |
| DO | Days Open |
| FAO | Food and Agricultural Organization |
| GDP | Gross Domestic Product |
| GL | Gestation Length |
| HF | Holstein Friesian |
| ID | Identity |
| LL | Lactation Length |
| ME | Metabolic Energy |
| MY | Milky Yield |
| PPM | Post Partum Heat Period |
| SE | Standard Error |
| SL | Shahiwal |
| SPC | Service Per Conception |
| WLW(M) | Male Weaning Weight |
| WLW(F) | Female Weaning Weight |

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# ABSTRACT

The present study was undertaken to compare productive and reproductive performances between 50% HF × 50% SL crossbred and 50 for (50% HF×50%L) crossbred. The study was conducted at sreepur Upozila of Magura districts in Khulna division, Bangladesh from August, 2016 to November, 2016. A total of 100 dairy cows 50 each for Friesian x Sahiwal and Friesian x indeginious were selected from same farm. The study found that the daily milk yield, male birth weight, female birth weight, male weaning weight, female weaning weight, mature weight from 50%HF×50%SL crossbred are 11.7L, 28.26 kg, 24kg, 109kg, 110kg, 294kg, 321kg respectively. The daily milk yield, birth weight male, birth weight female, weaning weight male, weaning weight female mature weight from 50%HF×50%L crossbred are 6.5L, 23.8kg, 21.94kg, 90kg, 88kg, 191kg, & 289 kg, respectively. The age of sexual maturity maturity & calving interval of 50%HF×50%SL crossbred and 50%HF×50%L crossbred are 622 days & 676 days and 389 days & 397 days respectively. In case of age at first heat, age at first calving, post partum heat period, days open and gestation length of different genotypes were not statistically significant. The overall productive and reproductive performance of (50%F×50%SL) crossbred cows were superior to the (50%F×50%L) crossbred in same dairy farm. The finding of this study may assist farmers and policy makers in making decision for future dairy cow farming and undertaking the genetic improvement program to increase the milk and meat production in Bangladesh.

**Key words:** Crossbred, Productive, Reproductive Performance, genotype.