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# 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 |

# ACKNOWLEDGEMENT

All praises to the Almighty Allah, who kindly enabled the author to complete the present work successfully and to submit it.

The author expresses his profound indebtedness and sincere gratitude to his respected teacher and supervisor, DR. Md. Moksedul Momin, Lecturer , Department of Genetics & Animal Breeding, Chittagong Veterinary and Animal Sciences University (CVASU), Bangladesh for his scholastic direction, valuable suggestions, constructive criticism and providing important information throughout research work and towards preparation of manuscript.

The author owes arrears of gratitude to Professor Dr. Md. Ahasanul Hoque, Dean, Faculty of Veterinary Medicine and Professor Dr. A. K. M. Saifuddin, Department of Physiology, Biochemistry and Pharmacology for their kind collaboration, encouragement and valuable suggestions to complete the work.

I would like to thanks to my beloved parents, brothers and sisters for their constant inspiration and blessing throughout the entire period of my academic life.

**The Author November, 2016**

# 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.