

Study of Productive Traits in Crossbred cow- Frieswal

**Basdev Singh¹, Dhruvaraj Sawant², Balasaheb Andhare³, Pushkraj Sawant⁴,
Satyaprakash Yadav⁵, Manvendra Singh⁶**

*^{1,3,4,5,6}Department of Animal Husbandry & Dairying,
Banaras Hindu University, Varanasi*

*²Department of Animal Husbandry & Dairying,
Dr. D Y Patil College of Agriculture, Talsande*

ABSTRACT

Frieswal is the cross between Holstein Friesian and Sahiwal. The collaborative project between the ICAR and Military Farms in India was introduced on 3rd November, 1987 at the military farm school and research centre in Meerut with the objective to evolve new national breed of dairy cow “Frieswal” and to undertake progeny testing of around 100 Frieswal bulls per year. Friesian x Sahiwal crossbreeds with Friesian inheritance between 3/8 and 5/8 are being interbred using semen of 5/8 Friesian crossbred bulls into a breed development program. The averages for the total and 300 first lactation milk yield were 2729.9 and 2629.5 respectively with a lactation length of 326.0 days. The peak yield was 12.2 kg/day and average weight of cow at first calving was 381 kg.

Objective of this work was to study the productive traits of Frieswal. The data was collected from the year 1996 to 2010 of 150 crossbreeds (Frieswal) from military dairy farm, Agra regarding productive traits like i) Age at first calving, ii) Body weight at first calving, iii) First lactation milk yield, iv) First lactation period v) First calving interval vi) First dry period. On analyzing data it was found that, the overall mean for age at first calving was 928.07 ± 0.88 days, the overall mean for weight at first calving was 396.87 ± 0.92 kg, the overall mean for first lactation milk yield was 4042.46 ± 8.44 litres, the overall mean for first lactation period was 301.84 ± 0.26 days, the overall mean for the first dry period was 99.40 ± 0.15 days and the overall mean for the first calving interval 401.33 ± 0.30 days. From this study we can conclude that the combination of overall productivity and resistivity to tropical condition of Frieswal is greater than its individual parent Sahiwal and Holstein Friesian.
