

AICRP - CATTLE-SAHIWAL

Objectives

- To study the genetic and phenotypic variances in milk and covariance among milk and draught and associated economic characteristics such as growth, reproduction and survival with a view to develop suitable selection criteria for improving draught/ draught and milk.
- To undertake testing and selection of bulls for bringing genetic improvement in population involved.
- To provide superior germplasm for utilization in development programme for improving draught/ draught and milk production.

1. Salient Achievements

- Increase the strength of breedable females from 88 to 147 at IDF Nagla.
- 274 high yielding femalesahiwalprogenies born under the project.
- The conception rate (%) improved from 31.39 to 39.38
- Age at first calving reduced from 1223 to 1181 days.
- The first lactation milk yield has been improved from 1608 to 1747 Kg.
- On demand of farmers threesahiwal heifersare auction during the famers fair 2018-19.
- Progeny show successesfully organized under the project on 18 Dec, 2018. Director, Experiment Station and Dean, College of Veterinary and Animal Sciences and other scientists appreciated the health and general management of animals under the project.
- Hon'ble Chancellor, Smt. Baby Rani Maurya visited sahiwal project herd on dated 11 Jan, 2019 and appreciated the performance.

Future Research Programme

- Use of superior germplasm for better propagation of Sahiwal.
- Development of suitable selection criteria for improving milk production.
- Management and health interventions to further

improve the productivity of the animals.

- To conserve and improve the breed .
- Further increase the strength of breedable females.

2. Research Publications:

Thesis

- I. Performance evaluation of Sahiwal cattle maintained at farm and field conditions, Suvarna Bhoj *M.V.Sc LPM* (Id. No. 29965) (2012) GBPUA&T Pantnagar
- II. Performance evaluation of reproduction and production traits of sahiwal cows under farm conditions, Mr. Devesh Singh (Id. No. 49549) (2017) GBPUA&T Pantnagar

b. Research Papers-

- I. Shive Kumar, R.K. Sharma, Aashaq Hussain Dar, S.K. Singh, Sunil Kumar, Rajeev Ranjan Kumar, M.K. Singh and Devesh Singh. Estimation of Means and Trends in Economic Traits of Sahiwal. *Journal of Animal Research: v.7n.4,p.705-709. August 2017*

- c. Publication of extension material (Two folders- one English and one Hindi)

3. Awards/Honours:

- Kamdhenu award won by Sahiwal herd under the project, given by Central Agriculture Minister Radha Mohan Singh on 1 June, 2017.



Sahiwal Heifers at IDF, Pantnagar