

ACTION PLAN

FOR CHOLISTANI CATTLE BREEDING IN PUNJAB

GOVERNMENT LIVESTOCK FARM, JUGAITPEER,
DISTRICT BAHAWALPUR

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PURPOSE

1. Preservation and Development of nucleus herd of Cholistani cattle
2. To study the productive and reproductive traits of Cholistani Cattle.
3. To enhance socio-Economic status of Livestock farmers in Cholistan
4. Breed improvement through provision of breeding bulls to breeders and S.P.U's.

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BREED CHARACTERISTICS

- Cholistani Cattle are considered to be ancestors of Sahiwal breed,
- Medium size with body weight of cows (300-350 Kg) and of bulls (450-500 Kg) having white body with brown spots or brown body colour with white spots or tan, black splashed coat.
- The body is wedge shaped with fine thick, loose skin, medium-short head, medium-sized ears, black muzzle, small and thick horns broad at the base, tapering blunt at the top.
- Females are often dehorned. Black eye lids with a voluminous dewlap and sheath, massive hump in male but slight in female are its distinctive features.
- Hooves are black and well set, the tail is long with black tuft, the balanced udder and teats are of uniform length and size.
- The cows raised as dairy animals but their male calves are a source of good quality beef.

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PRODUCTION SYSTEM:

1. Rural Subsistence Smallholdings:

Av. Herd Size:

2 or 3 Cows

Feeding Resources:

- i. Grazing
- ii. Fodder
- iii. Crop residues
- iv. Partly concentrate

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2. Rural Market-Oriented Smallholdings:

Av. Herd Size:

More than 6 cattle with two or three in milk

Feeding Resources:

- i. Green Fodder
- ii. Straws
- iii. Concentrate
- iv. Grazing

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3. Rural Commercial Farms:

Av. Herd Size:

More than 40 animals

Feeding Resources:

- i. Fodder Crop
- ii. Straws
- iii. Concentrate
- iv. Roughages (Dry Animals)

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4. Peri-Urban Commercial Dairy Farms:

Av. Herd Size:

50-200 animals or above

Feeding Resources:

- i. Concentrate
- ii. Straws
- iii. Green Fodder

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5. Nomadic Dairy Farming:

Av. Herd Size:

Upto 1000 animals or above

Feeding Resources:

Natural range lands of Cholistan area.

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PAST INITIATIVES

Cholistani Cattle Breed have been preserved at Govt. Livestock Farm, Jugaitpeer, District Bahawalpur since 1982-83. Main objectives are to maintain pure nucleus herd of Cholistani Cattle and Buchi Sheep and proliferation of superior germ plasm through providing Cholistani MYS to interested Breeders and SPUs.

A Scheme Titled, “Development of Cholistani Breed of Livestock through Provision of Better Animal Services” in which 2700 Cholistani Cattle were registered in Three Tehsils i.e. Yazman, Chishtian and Khairpur Tamewali. A.I Services, Vaccination, Deworming and Medication provided to the interested breeders at their door step.

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PHYSICAL ACHIEVEMENTS

SR. #	ACTIVITY	TARGETS	ACHIEVEMENT.
1	Cows purchased	100	100
2	Breeding Bulls produced	40	58
3	Breeding Calves purchased	30	30
4	Bulls distributed among interested breeders	25	57
5	Bulls supplied to SPUS	50	62
6	Registration of Elite animals	2700	2700
7	Nos. of A.I Services performed	214	240
8	Nos. of animals vaccinated.	--	49550
9	Nos. of animals treated	--	5440
10	Nos. of animals dewormed	--	22850

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CHOLISTAN

Total Area 66,55,360 Acres (10399 Sq. Miles)

Bahawalnagar	Bahawalpur	Rahim Yar Khan
10,11,200 Acres	40,28,160 Acres	16,16,000 Acres

Length	=480 Kms
Width	=32 to 192 Kms
Temperature	=6 °C to 50 °C
Rainfall	=128-175 mm
Ground Water	=Mostly brackish, 25-90 m deep
Sweet water zones	=Hakra bed, canal seepage Zones
Human population	=0.155 Million
Livestock population	=1.258 Million

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CHOLISTAN DEVELOPMENT AUTHORITY

CLDP (Cholistan Livestock Development Project) targeting animal health care services in Cholistan Desert.

SHADBAAD COOPERATIVE LIVESTOCK FARM PROJECT

- 5 Cooperative Livestock Farms of 500 acres each are going to be established, publicly funded professionally managed based on community participation model at Toba Noor Sir, Chapu, Jam Garh, Muttan wala and Mauj Garh. Where 250 milking cows and 850 Cholistani MYS for fattening purpose are to be maintained at each farm.
- Introduction of Modern technology for milk and meat production.
- Every farms has a covered area of 40000 sq. ft

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ACTION PLAN FOR CHOLISTANI CATTLE BREEDING IN PUNJAB, CHOLISTAN

Objective	Strategy	Program	Target/Time Frame	Action by	Role of Stakeholder
Improving of Milk Production	Selective Breeding	Registration of Cholistani Farms	30 Farms in 1 st year followed by 5/annum	DLF CCBS	DLF: Registration and selective breeding at Jugaitpeer. CCBS: Collaboration and assistance in registration.
		Milk Production recording	300 cows 1 st year followed by 40/annum	DLF CCBS	DLF: Weekly/monthly milk recording of Cholistani herd at GLF Jugaitpeer and in field. Collaboration and monitoring in field milk recording.
		Identification of elite Cholistani in the milk recorded herds	Recording would be simple (monthly) for all cows of a farmer. Top 20% recorded cows within a village/centre declared as elite	DLF CCBS	DLF: Identification of elite cows after data analysis CCBS: Collaboration in selection of elite cows.

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Objective	Strategy	Program	Target/Time Frame	Action by	Role of Stakeholder
		Establishing progeny testing programme	Registered farms will be added to the program of Cholistani breed	DLF DBI CCBS	DLF: Implementation of PTP at GLF Jugaitpeer in Cholistani cattle nucleus herd and in the field DBI: Collaboration in semen collection and storage CCBS: collaboration in selection of bulls and semen of proven bulls
Improving in reproductive Efficiency	Reducing age at first calving and reduction in calving interval	Reproductive Performance	Govt. farms and registered private farms through improved extension services	DLF DBI CCBS	DLF: Reducing age at 1 st calving and calving interval leading to better reproductive efficiency in Cholistani cattle and provision of Breeding management package through field staff DBI: Collaboration in extension service CCBS: collaboration in extension service

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Objective	Strategy	Program	Target/Time Frame	Action by	Role of Stakeholder
Breed Development	Maintenance of Nucleus Herds	Establishment of breed specific farms in public and private sector	Identification of new Cholistani breed herds/ farms	DLF CCBS	DLF: Maintenance of Pure Cholistani nucleus herd through better feeding and management at GLF, Jugaitpeer CCBS: Collaboration in identification
	Utilizing ET/IVF technology	Conduction of research trials on ETT/IVT technology	Nucleus herds of DLF	DLF RV&FC CCBS	DLF: Conduction of ET/IVF trail RV&FC: Collaboration in ET/IVF technology CBS: Linkage with breeders for ET/IVF
	Expansion of Cholistani Cattle society	Organizing milk and competitions in cattle shows	Cash awards and other incentives	DLF CCBS	DLF: Conduction of Cholistani Cattle shows to highlight interest of the breeders of Cholistani Cattle CCBS: Collaboration in Cattle Shows.

DLF Directorate of Livestock Farms, Punjab, Lahore
 DBI Directorate of Breed Improvement
 CCBS Cholistani Cattle Breeders Society
 RV&FC Remount Veterinary and Farms Crop

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