

LIVESTOCK PRODUCTION AND MANAGEMENT

Sl.No	Problem Identified	Specific farming situation for which technology is developed	Crop/ Animals etc	Breed/Variety	Specific Technology	Yield
1	Farmers not able to maintain a breeding boar	Tribal pig production system	Pig	Hampshire, T&D and khasi local	Artificial insemination technology
2	High pre-weaning mortality and poor growth in piglets	Tribal pig production system	Pig	All breeds	Creep feeding and early weaning
3	High feed costs for rabbit	Tribal pig production system	Rabbit	New Zealand white and Soviet Chinchilla	Low cost feeding system (feeding of vegetable wastes)
4	Poor growth rate of indigenous poultry	Free-range system of rearing	Chicken germplasm	Assam Local (Miri type), Mizo local	None	Yet to be studied fully
5	Seed production of catfish Magur, <i>Clarias batrachus</i>	Specifically for valley region	Catfish	magu	Induced breeding of catfish magur	50,000 fingerlings/ha.

6	Asynchrony in onset of estrus	Situation on the adoption of assisted reproductive technologies like artificial insemination, etc. Onset of estrus in variable periods of time in a pig population or at remote villages leads to need of more time and labor.	Pig	Indigenous pig of Nagaland and Large Black cross bred.	Standardization of protocol for synchronization of estrus in sows.	80% synchronous onset of estrus over a period of 3 days.
7	Suitable breed of pig for traditional system of rearing	Production performance of pigs under traditional systems of pig rearing in Nagaland.	Pig	Large Black & Hampshire crossbred, and indigenous pig of Nagaland.	Daily body weight gain, growth rate, performance of different breeds of pig	Large black cross bred pig gains 210g/day. Hampshire crossbred- 185g/day. Indigenous pig – 65g/day
8	Suitable breed of broiler rabbit	Performance of broiler rabbits under Nagaland	Rabbit	New Zealand White, Soviet Chinchilla	Body weight gain at slaughter	NWZ rabbit attains 1.90 kg body weight at

		agro climatic conditions				slaughter. SC rabbit attains – 1.7 kg. Litter size at birth NZW -3-9 SC-3-6
9	Suitable poultry birds for backyard system of rearing	Dual purpose poultry bird suitable for backyard system of rearing	Poultry	Vanaraja and Giriraja	Adoption of dual purpose on backyard system of rearing with supplementary feed.	Mortality upto 6 weeks of age: Vanaraja < 5% Giriraja < 3% Body weight gain at 7 weeks: Vanaraja – 1.4kg Giriraja – 1.2 kg
10	Infertility-Delayed puberty, repeat breeding, Anoestrous in cross-bred cows	Sikkim	Animals	Crossbred cows	Augmentation of fertility in crossbred cows (Still in progress)	None
11	Feed scarcity during winter months	a) Sub tropical and high humid zone b) Temperate and humid zone	Ruminants	Cattle/Sheep/Yak	Small scale silage making	None

12	To minimize feed wastage and to provide balance diet	Small and marginal farmers	Ruminants	Low cost complete feed block preparation	Cattle, sheep, goat, yak	Nil
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