# CATTLE MANAGEMENT - PREVAILING PRACTICES IN ARID WESTERN PLAIN ZONE OF RAJASTHAN

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Cattle rearing is constantly gaining momentum and contributing significantly towards the upliftment of the poorest among the poor. Development of animal husbandry is also envisaged in our national plans as an integral part of a sound system of diversified agriculture. India ranks first in the world with respect to cattle population as well as milk production. Inspite of India's position as the highest producer of milk in the world, productivity per cattle is very poor viz., 800-900 kg/lactation which is much less than the world's average of 4000-7000 kg in European countries. This low productivity is due to the poor cattle management practices used by the cattle keepers specially in the field of health care and other management practices. In order to know specific aspects in which knowledge of cattle keepers is lacking, it is imperative to know the existing cattle management practices used by them. Keeping this view in mind the present study was undertaken with the specific objective.

To study the existing cattle management practices followed by the cattle keepers in the area of health care, housing and clean milk production.

## **METHODOLOGY**

The study was undertaken in the Arid Western Plain zone of Rajasthan. Which includes Barmer and Jodhpur districts. Three tehsils from each district and three villages from each tehsil, having maximum cattle population were selected for the study. For selection of respondents, 5 respondents from each category (i.e. small, medium and large herd size owners) were selected randomly from each identified village. Thus, the total respondents included in the study were 270. Data

were collected with the help of pre-tested, reliable and valid questionnaire using personal interview technique.

### RESULTS AND DISCUSSION

The existing management practices in cattle rearing in the study area have been discussed under the following heads:

## L HEALTH CARE:

It is better to prevent disease than to cure them. Therefore, proper health care of the cattle is most important. Health of cattle also affects the milk production.

Vaccination—The main contagious diseases known to the respondents and existing in study area were Foot and Mouth Disease (FMD), Haemorrhagic Septicaemia (HS) and Black Quarter (BQ). It was found that regular vaccination programmes against contagious diseases were never conducted in the study area. Similarly there was also lack of timely veterinary facility due to which the respondents used their local means of eradication for the illness. For the cure of FMD and HS they use to rub Tilli oil (sesame oil). For Black Quarter the cattle keepers of the area had their own treatment. They punch the ear of cow till the black blood is coming out and red coloured blood starts coming. It was found that only 6.30 to 7.78 per cent respondents used regular vaccination against FMD, BQ and HS as they were residing near the city and hence could avail the facility.

Care of sick animals—Whenever animal fall sick and ailment is not severe, about 90 per cent of the respondents treated the animals either themselves (59.63%) or by village Guni (30.74%) and rarely took the help of veterinarians except in

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peculiar indigenous practice of spraying cow's urine over stored bajra grains was observed (4.07%). The women reported that it saves the grain from insect infestation.

able 2. Existing cattle management practices of cattle keepers regarding housing and other management practices.

S. No.	Existing practices	Frequency	Percentage
1.	Types of house		
	(a) Kuchha/Thatched	182	67.41
	mud house		
	(b) Pucca shed	42	15.56
	(c) Under trees/open yard	46	17.04
2	Cattle shed specification		
	(a) Sloppy floor	187	69.26
	(b) Manger	11	4.07
3.	Frequency of cleaning		
	cattle shed		
	(a) Daily	270	100.00
	(b) Alternatively	-	
	(c) Weekly	-	
4.	Use of animal waste		
2	(a) Used as fire cakes	169	62.59
	(b) Plastering house	64	23.70
	(c) Used as manure	182	67.41
	(d) Urine sprayed on	11	4.07
	bajra or other crops		<u>.</u>
5.		1	
	animals		2. + 4"A , B = 1
	(a) Burnt	-	-
	(b) Burried	22	8.15
	(c) Left to decay outside	165	61.11
	village	1	
	(d) Handed over to	83	30.74
	harijan		8.5
6.	Identification of cattl		
	(a) Ear tag	12	4.44
	(b) Tattooing	9	3.33
	(c) Metal tag	-	•
	(d) Branding	10	3.70
7.	The state of the s	1	
	maintained		901 (0000)
	(a) Milk record	6	2.22
	(b) Cattle feed record	1	0.37
	(c) Breeding record	-	-
	(d) Pedigree sheet	-	-
	(e) Health record		-x

Disposing body of dead animals—Proper disposal of carcass is important to maintain hygienic conditions in the area. Results of the study revealed that dead bodies of animals were at times handed over to Harijan on payment basis by

30.74 per cent of the respondents. Only 8.15 per cent respondents burried the dead body of animals in the field away from home premises. Most of the times (61.11%) it was left outside the village premises to decay automatically.

Identification of cattle—It was found that only those cattle keepers who have purchased the cattle on loan basis were using the identification mark viz., ear tagging, tattooing and branding for identification of their cattle.

Types of records maintained—Findings in Table 2 show that only 6 respondents were keeping milk record and 1 respondent was maintaining the cattle feed record. Otherwise no record was maintained by any of the respondent i.e. breeding record, pedigree sheet, health record etc.

#### III. Clean Milk Production:

Better milking practices and production of clean, wholesome milk bring better prices and also tend to increase consumption. The essential requisites for clean milk production are healthy and clean animal, clean milker, clean utensils and clean bran.

Method of milking-Different methods followed by respondents to milk the milch animals were full hand method, thumb method and stripping method. Amongst these three methods, the most prevailing method was thumb method/ knuckle method, which was practised by 91.11 per cent respondents, followed by stripping method, which was practised by 5.56 per cent respondents. Full hand method was the least popular method of milking as only 3.33 per cent respondents were practising this method of milking though, it is the only right method of milking.

Sanitary precautions—Table 3 shows that all precautions were taken while milking the cows i.e. respondents washed their hands, udder and teats of the cow. Usually buckets were used for milking and were washed by all the respondents before milking. Though the milk was not strained during milking but was strained before bringing it to use by majority of the respondents (83.70%).

Period to stop a cow milking before calving— Findings in Table 3 show that majority (60.00%) of the respondents were following the recommended

Table 3. Existing cattle management practices of cattle keepers regarding clean milk production.

S. No		Frequency	Percentage
1.	Method of milking		Ū 11 . 120
	(a) Full hand method	9	3.33
	(b) Thumb method	246	91.11
	(c) Stripping method	15	5.56
2.	Sanitary precautions		True g
	(a) Washing hands	270	100.00
	(b) Washing udder and	270	100.00
	teats		
	(c) Washing buckets	270	100.00
	before milking		
	(d) Use of strainer	226	83.70
3.	Period to stop a cow		
	milking before calving		
- 1	(a) Continue till next	31	11.48
- 1	lactation	en en e	
- 1	(b) Stop 2 months	162	60.00
	before calving		
- [,	(c) Stop 1 month	77	28.52
	before calving	t g is a second	2 , 8 1.8 3 h

practice of drying off of cows 2 months before calving. Around 28.00 per cent respondents were keeping their animals in dry condition for only 1 month before calving. The remaining 11.48 per cent of the respondents continue to milk a cow till it is lactating, which adversely affects the growth of the foetus.

## CONCLUSION

On the basis of finding it could be concluded that in most of the aspects viz. care of sick animal, control of external parasites, vaccination against FMD, HS and BQ, disposal of carcass, method of milking etc. the cattle keepers have not adopted the scientific practices. The main reason behind this was lack of knowledge coupled with poor infrastructure facilities in/near villages. In order to overcome these problem intensive efforts should be made by the extension scientists to motivate cattle keepers for adoption of scientific practices through educational means viz. organisation of trainings, awareness camps, use of mass media etc. At the same time veterinary facilities should be provided by trained veterinarian. The rural youth should be trained regarding first-aid treatment of animals.

## REFRENCES

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