

Study on Infertility of Different Months in Cow and Buffalo in Hastinapur Block of District Meerut



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Abstract

In the study data were recorded during one year (Jan to Dec). The major cause found was nutritional in both cows and buffaloes. It is suggested to provide better nutritional condition for controlling the infertility.

Keywords: Cow, Buffalo, Month, infertility & Causes.

Introduction

Reproduction should be received attention since it initiate the process of production. From breeding point of view nothing is more important than regular fertility of farm animal. The problem of infertility in cows and buffaloes as attracted to attention in live stock breeding. In India acquired functional and infectious causes appear to be major factors responsible for infertility in cows and buffaloes. The main object of this study was conducted to know the causes and at what extent the of infertility detecting in cow and buffaloes, which causes of infertility was more common of this area.

Materials and Methods

The present survey was carried in urban and rural areas of animals around Hastinapur of District Meerut. Hastinapur is a historical place and is situated at the distance of 10 kms north east of Mawana Tehsil of Meerut district. This A.I. centre was selected randomly for the survey because catering to the need of city and nearest villages. All data were recorded for infertility conditions in cows and buffaloes separately, during one year (Jan to Dec). The causes of infertility observed at the centre were grouped in the following major causes to facilitate the survey-

1. Nutritional
2. Structural/Anatomical
3. Hormonal/Physiological
4. Others (Pathogenic, Genetic and Manage mental). Data were statistical analysis by Snedecor, G.W. and Cochran, W.G. (1980).

Results and Discussion

Among the different causes of infertility nutritional cause was the major problem in A.I. centre in cows and buffaloes but higher in buffalo (55.94%) as compare to cows (47.29%) which is statistically significant. The minimum problem was found hormonal which was higher in buffaloes as compare to cow. The highest nutritional problem found in month of April and lowest in the month of July in cows and in buffaloes highest nutritional problem found in month of May & June and lowest in the month of April Kale (1966) reported 51.6% infertility in cows due to nutritional which was slightly lower to our finding. Anatomical infertility was highest in month of July (67.86%) and lowest in month of March (31.03%) in cows but in buffalos highest (100%) in January and lowest in February (11.11%). Hormonal infertility cause was not found in month of April, July, September & December in cows but in buffalos only February, March & September were found Hormonal disorder. Other infertilities were highest in cows in March (17.24%) and in buffaloes highest in month of July. Pathogenic, Genetic and Manage mental causes were found at 3rd position in both cows and buffaloes. Same work was done Gupta, D. (2015).

Conclusion

From above study, it can be concluded that better nutritional and managemental condition in cows and buffaloes for controlling the infertility.

References

1. **Kale, .S.N (1966):** Sterile and sub sterile condition in villages in cow and buffaloes, Goasamvardhana.
2. **Gupta. Devesh (2015):** Study on Sterile and sub sterile condition in cow and buffaloes in Mawana

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3. **Snedecor, G.W. and Cochran, W.G. (1980).** Statistical methods. Oxford and IBH publication Co., New Delhi.

Table 1
Showing Infertility Conditions in Cow and Buffaloes

Name of months	No. of case of Infertility causes in Cow					No. of case of Infertility causes in Buffalo				
	Nutritional	Anatomical	Hormonal	Others	Total No. of cases	Nutritional	Anatomical	Hormonal	Others	Total No. of cases
January	41.86	32.55	11.63	13.96	43	-	100.00	-	-	2
February	52.19	34.79	4.34	8.68	23	44.44	11.11	11.11	33.33	9
March	48.28	31.03	3.45	17.24	29	60.00	-	20.00	20.00	5
April	60.00	40.00	-	-	5	25.00	50.00	-	25.00	4
May	58.06	35.48	3.23	3.23	31	100.00	-	-	-	2
June	54.34	39.13	4.35	2.18	46	100.00	-	-	-	1
July	21.43	67.86	-	10.71	28	-	-	-	100.00	1
August	47.83	39.13	4.35	8.69	23	50.00	50.00	-	-	2
September	48.94	44.68	-	6.38	47	40.00	-	20.00	40.00	5
October	46.67	33.33	6.67	13.33	30	40.00	20.00	-	40.00	5
November	51.85	37.05	3.70	7.40	27	50.00	50.00	-	-	2
December	36.00	48.00	-	16.00	25	50.00	25.00	-	25.00	4
Average	47.29	40.25	5.21	9.80	357	55.94	43.73	17.03	40.47	42