



Effect of seasons on the conception rate of cows and buffaloes inseminated by A.I. in Baghpat of Uttar Pradesh

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ABSTRACT : The present survey was conducted to know the effect of different seasons (rainy, winter and summer) on the conception rate in cows and buffaloes inseminated artificially in randomly selected 4 main and 4 sub A.I. centre of Baghpat of Uttar Pradesh. It can be concluded that season has no significant effect on conception rate both in cows and Buffaloes inseminated artificially

KEY WORDS : Season, Cow, Buffalo, A.I. Centre, Conception rate

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INTRODUCTION

It is impossible to think of improving agriculture in India without having good animals. India has largest cattle and buffalo population, it has one fourth of the world's population but still milk production is very low. To enhance our indigenous cattle breed and milk production through better breeding, feeding management and health care. In this respect live stock breeding by A.I. (Artificially insemination) has now been raising all over the India as the cheapest and quickest way of poor indigenous animal development. A.I. is the deposition of semen in female reproductive organs by instrument rather than natural way in proper place and proper time. Under the field conditions A.I. is practiced more with cow and buffaloes than any other species. A.I. works in the progress in India for over 25 years and today live stock owners are aware to its advantages. This methods has been accepted as a tool in

: all cattle development work.

: The present survey was conducted to know the
: effect of different seasons on the conception rate in cows
: and buffaloes inseminated artificially in randomly selected
: 4 main and 4 sub A.I. centre of Baghpat of Uttar Pradesh.

MATERIAL AND METHODS

: The present work was taken to carried out to know
: the effects of different seasons (rainy, winter and summer)
: on the conception rate (C.R.) in the cows and buffaloes
: inseminated artificially in Baghpat of Uttar Pradesh. There
: are 45 A.I. centres in Baghpat out of which 4 main A.I
: and 4 sub A.I. centres randomly selected. All A.I. centres
: having Haryana cows bull semen and Murrah buffaloes
: bull semens. The laboratory of these A.I. centres is fully
: equipped with all kinds of equipments required for A.I.
: The work has conducted on the following 4 main and 4
: sub A.I. centres –

: Main A.I. centres: Khekhera, Baghpat, Adarsh
: Nangla, Pilna

: Sub A.I. centres: Kasimpur, Chhaprauli, Ramala,

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Table 1 : Showing the effect of seasons on the conception of cows and buffaloes inseminated by A.I. in Baghpat of Uttar Pradesh

Sr. No.	Name of A.I. Centres	Conception rate in different seasons					
		Rainy		Winter		Summer	
		Cows	Buffaloes	Cows	Buffaloes	Cows	Buffaloes
	Main A.I. Centre						
1	Khekhera	50.94	47.50	51.96	46.05	43.24	58.18
2.	Baghpat	41.48	40.80	40.05	41.60	40.34	41.40
3.	AdarshNagla	36.69	35.60	33.29	32.20	37.16	36.05
4.	Pilana	39.68	35.59	43.13	48.64	39.31	39.47
	Sub A.I. Centre						
1.	Kasimpur	38.49	34.62	45.08	35.77	34.65	35.76
2.	Chhaprauli	40.17	40.86	41.48	33.64	41.14	39.65
3.	Ramla	52.42	47.31	50.61	45.16	52.56	46.77
4.	Baraut	50.47	50.63	48.13	53.29	47.31	48.69

Baraut

Data were recorded in different season like rainy, winter and summer for the conception rate in cows and buffaloes separately. All the centres were using frozen and liquid semen of Haryana cow bull and Murrah buffaloes bull. Data were statistically analyzed by Panse and Sukhatme (1985).

RESULTS AND DISCUSSION

Among the A.I. centre the highest conception rate was recorded in Khekhera centre (58.18%) and lowest conception rate in Adarsh Nangla A.I. centre (32.20%) but highest conception rate in cows was found in Ramala (52.56%) and lowest was in Adarsh Nangla (33.29%). During the study highest conception rate in buffaloes was found in Ramala (58.18%) and lowest was in Adarsh Nangla (32.20%). Highest conception rate in rainy winter and summer, respectively 52.42 per cent, 51.96 per cent and 58.18 per cent. Lowest conception rate in rainy, winter and summer season were, respectively 34.62 per cent, 32.20 per cent and 34.65 per cent. Among the 4 main A.I. centres the highest conception rate was recorded in Khekhera centre in buffaloes and lowest conception rate in Adarsh Nangla A.I. centres (32.20%) in also buffaloes. Among the 4 sub A.I. centres the highest

conception rate was recorded in Baraut centre in buffaloes and lowest in Chhaprauli in also buffaloes. The observations shows a very least variation in C.R. in different seasons which is statistically significant at 5 per cent level of significance. So season is not responsible for variation in conception rate. Same work done Anzar *et al.* (2003); Khan (2008) and Razi *et al.* (2010).

Conclusion:

It can be concluded that season has no significant effect on conception rate both in cows and buffaloes inseminated artificially.

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