Remarking

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Effect of Feed on Raw Milk for Fat %, Total Serum Protein and Minerals in Buffalo



The study was carried out to see the effect of feed supplement on milk. The buffalo were divided into Two groups, one group was offered "khuark" as feed supplement for 7 days. Significant increase was observed in milk production.

Keywords: Milk, Supplements, Khurak.

Introduction

The feed supplement "Khurak" was given to treatment group of animal @ 300 gm/day for 7 days. Both (one group is standerd and another is experimental) the groups were kept in same management conditions. In present investigation has been done to see the effect of khurak on experimental group. The experiment was conducted in Jabalpur District (M.P.) N.A. Kumar et. al. observed significant increase in serum calcium and iron (2003). Lall et. al. did not found significant effect on blood minerals on supplementation of mineral mixture.

Material and Methods

Six newly parturient milking buffalo was selected for feeding trid. The maximum yield in initial without supplementation was around 7 liters each. The group for 7 days without aiding extra ration.

All milking buffalo were kept on ad-lib feeding chaffed, green maize, green grasses and one kg concentration mixture daily. The milk production was recorded daily morning and evening it was estimated by butyromater method, Total serum protein and minerals was estimated by the method of lowry et.al (1957).

Result and Discussion

The chemical composition of feed supplement as given below in Table no. 1. The effect of milk production total serum protein, minerals and fat % level were observed significantly in feed supplement. But the effect of feed supplement in fat % was observed significant effect. There is negative co-relation between fat % and milk production was observed. Increase in milk production decrease in fat % was observed.

P. P Rohila et.al (2007) and Saha and Kumar (2002) observed significant effect of feed supplement on milk production Kumar et.al (2003) observed significant effect of feed additives on milk production and fat%

Result obtained of the experiment on feed supplement is presented on Table -2. The result in milk production, fat %, total serum protein and iron, feed supplement increased the absorption of mineral as well as metabolism of protein, fat due to which milk production increased significantly. These above finding suggest that food is a good supplement for the milch animals.

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Table - 1					
Chemical Composition of Substract in Feed					
	Component	Composition			
	Protein	93 mg			
	lodine	117.5 mg			
	Calcium	42 gm			
	Vit A	42,500 iv			
	Iron	212 mg			
	Copper	50 mg			
	Manganese	250 mg			
	Cobalt	5.14 mg			
	Sulphur	4.5 mg			



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Table - 2 Effect of Feed on Milk Production (Mean I SE), Fat %, Serum Protein, Calcium and Iron

Parameters	Control	Treatment		
	Group	Group		
Milk production in liter	7.42+0.114	8.014+0.33		
Fat % in group	5.3+0.365	9.22+0.0462		
Total serum protein g/dl	6.7+0.463	7.11+0.482		
Iron mg%	142+ 3.34	142+3.21		

Conclusion

The milk production, fat %, total serum protein and iron, feed supplement increased the absorption of mineral as well as metabolism of protein, fat due to which milk production increased significantly. There is negative co-relation between fat % and milk production was observed. Increase in milk production decrease in fat % was observed. These above finding suggest that food is a good supplement for the milch animals.

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References

- 1. Rohilla, P.P and Bohra, H.C. (2007), effect of nutrimix finding on milk yield of ewas and growth of lambs, India vet. 5. 84:1273-1275.
- Saha, S.K. and Kumar, C.K.(2002) : Effect of antibiotics on in vitro dry matter and neutral detergent fibro digestibility and NH-N concentration in buffalo: Indian vet. J. 79: 579-582.
- Snedeeor, G.W. and Cochran. W.G. (1994) Statistical methods 8th edi, Oxford and IBH publishing corporation, Calcutta.
- Kumar N.A., Kapoor, V, Lall D and paliwad, V.K. (2006) Effect of supplement mirerals mixture (with and without Zinc) in Diet on retention and blood minirals. Status in kids, Indian S.drim Nutri, 20C3).262-261.
- Lall, D. Gupta Rajan, Sethi, R.K. and Chopra, S.C. (1994): Effect of mineral supplementation on growth nutrient utilization, mineral balance and there levels in blood of buffalo calves fed a straw based ration. Int. J. Anim. Sci., 9 : 343-345.