

PERFORMANCE OF BRASS METAL DURING FREEZE BRANDING IN SAHIWAL CATTLE

Arvind K. Nandanwar*, Sharad Mishra and Deepak Thakur

*Department of Livestock Production and Management
College of Veterinary Sciences & Animal Husbandry, Anjora, Durg (C.G.)-491001*

Received-06.07.2017, Revised-18.07.2017

Abstract: Identification of animal in livestock enterprise is of immense importance to draw conclusion of their status in production as well as performance. The present investigation was conducted at the Bull Mother Experimental Farm, College of Veterinary Science & A.H., Anjora, Durg on 80 Sahiwal cattle of different age groups. The age of animals ranged from 0 month to above 18 months. In 0-6 months, the time of appearance of white hairs were 49 ± 1.83 , 50.66 ± 2.33 , 48.75 ± 3.94 and 55.25 ± 1.75 days, respectively for 5, 7, 9 and 11 seconds of exposure time. In 6 to 12 months, the exposure time of 8, 11, 14 and 17 seconds using brass metal, the appearance of white hairs were 47.2 ± 2.4 , 49.75 ± 1.75 , 56.66 ± 2.40 and 49.66 ± 3.28 days, respectively. In 12 to 18 months, the times of appearance of white hairs were 59 ± 1.00 , 61 ± 2.65 , 55.5 ± 6.54 and 62.5 ± 2.50 days, respectively for 12, 15, 18 and 21 seconds of exposure time. In age group of above 18 months, the exposure time of 17, 20, 23 and 26 seconds using the brass metal, the time of appearance of white hairs were found to be 63 ± 00 , 47 ± 00 , 57.66 ± 2.96 and 64 ± 2.00 days, respectively.

Keywords: Brass metal, Cattle, Production, Experiment

REFERENCES

- Bath, D., Dickinson, F. and Appleman, R.H.A.** (1981). Dairy Cattle Principles, Practices, Problems, Profits. 3rd Edition. K. M. Varghese Company, pp. 416-418.
- Farrell, R.K.** (1966). Cryobranding. *J. Dairy Sci.*, **51**(1): 146-152.
- Hooven, N.W.Jr. and Hollon, B.F.** (1971). Freeze branding on unclipped areas. *J. Dairy Sci.*, **54**(5): 785(Abstr.).
- Newton, D.** (1978). Freeze branding. Pages 142-144 in B. Stone-house, editor. Animal marking. University park, Baltimore, Maryland, USA and MacMillan, London, United Kingdom.
- Sherwin, R.E., Haymond, S., Stricklan, D. and Olsen, R.** (2002). Freeze branding to permanently mark bats. *Wildlife Society Bulletin*, **30**(1): 97-100.
- Snedecor, G.W. and Cochran, W.G.** (1994). Statistical methods. 8th edition. Iowa State University Press, Iowa, USA.

*Corresponding Author