ABSTRACT

THE EFFECT OF TEMPERATURE AND DURATION OF THAWING IN HIGH ALTITUDES OF FROZEN BAHMAN SEMEN QUALITY

By

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The aim of this research was to determine the lest temperature and durations of thawing at high altitudes in frozen semen of Brahman bull. This research conducted in 8-27 March 2014. This research was conducted using a completely randomized design (CRD) with 3x3 factorial. The first factorial is temperature (34^{o}C, 37^{o}C, and 40^{o}C) and second factorial is thawing durations with 3 replications. Variables were deserved in this researchs the percentage of alive sperm and sperm motility. Research data was analyzed by Anova and Duncan test at 5%.

The result showed that the temperatures and thawing durations influence the quality of Brahman bull frozen semen, but has no interaction between them. Of this this research, the best quality of spermatozoa obtained at 40^{o}C and the 20 second duration of thawing has the highest quality average among the other treatments. Motility of spermatozoa at 40^{o}C is 33,89% and thawing duration at 20 second is 35,56%, the percentage of alive sperm at 40^{o}C is 37,04% and the duration of thawing at 20 second is 35,43%.

Keyword : temperature and durations of thawing, frozen semen, Brahman bull, high altitudes