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BLUETONGUE VIRUS INFECTION IN CATTLE IN SOME PROVINCES OF NORTH-WEST ALGERIA

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ABSTRACT

The aim of this work was to estimate the sero-prevalence and associated with *Culicoides* trapping in study area in cattle. BTV sero-positive from seven provinces in north western Algeria, seven provinces were selected. A total 272 animals included three phases of blood collection in season of autumn were randomly collected for detection of BTV group specific antibodies through competitive ELISA (c-ELISA) for assessment of situation epidemiological by prevalence and presence of *Culicoides* trapping in sites was revealed seropositive. The significant ($p < 0,05$) highest prevalence of BTV was recorded in province Oran followed by Mostaganem, Relizane, Mascara, Tiaret, Chlef, whereas, the lowest sero-prevalence for BTV was recorded in cattle in province Tissemsilt, presenting 34,37%, 19,51%, 15,78%, 15,55%, 13,33%, 13,15% and 6,89%, respectively.

Key words: Bluetongue virus, Cattle, Sero-entomology, North-west Algeria.