



Title: Effect of Bruchid Beetles (*Burchidius Arabicus Decelle*) Infestation on the Germination of *Acacia tortilis* (Forssk.) Hayne) Seeds

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Abstract: The role of bruchid beetle infestation on seed germination of *Acacia tortilis* (Forssk.) Hayne) Mimosaceae under different incubation temperatures and degrees of scarification was studied under controlled conditions. Results indicate that seed germination was highest (96%) in scarified seeds at 25-35°C incubation temperature, whereas, it was only 28% in intact seeds. Seeds infected by bruchid beetles with one or two holes did not germinate regardless of different incubation temperatures. X-ray results of *A. tortilis* seeds showed substantial consumption of endosperm and embryonic portions by the bruchid beetles resulting in one or two holes in the infected seeds curtailing seed germination. A unique method of identifying seed viability of *A. tortilis* by X-ray studies is reported.