Effect of Presowing Treatments on Seed Germination of two Savanna Tree Legumes

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ABSTRACT
The investigations on some presowing treatments in seed germination of Albizia lebbeck (Linn) 8enth and Senna siamea (Lam), two savannah tree legumes in Nigeria, were carried out. Percentage germination in fresh seeds was 15-25, with 90-100% viability which further improved to 90-100%, following presowing treatments. The seeds of the two species exhibited physical dormancy due to hard seed coat. Dormancy in A/ebbeck and S. siamea was terminated by soaking seeds in concentrated sulphuric acid for 10 and 15 minutes, wet heat at 1000e for 30 and 60 seconds, dry heat at 80-100°C for 5 to 10 minutes, respectively. Total carbohydrate and ethanol soluble sugars were well mobilized.

Keyword
Savannah seeds, germination, legumes, presowing treatment.