

EFFECT OF SOME PRE-TREATMENTS ON GERMINATION IN SEEDS OF *Acacia nilotica* (c) Willd ex Del and *Zizyphilus spinachristii* (c) Del

A.M. Aduradola

Department of Forestry and Wildlife Management, University of Agriculture.
P.M.B. 2240, Abeokuta, Nigeria

ABSTRACT

Investigations were carried out to assess the effects of various seed storage options (using refrigerator, screen house or laboratory); stage of seed maturity (green, light brown and dry seeds); and ratio of seed weight to hot water on germination in the seed of *Acacia nilotica* and *Zizyphilus spinachristii*. One month after storage, germination percentage was highest in both species when stored under refrigeratory condition. Three months after storage, germination percentage of acid treated seeds of *A. nilotica* stored in refrigeratory condition declined from 90% to 50%, while it increased in treated seeds stored in screen house and laboratory conditions. Germination percentage of seeds of *Z. spinachristii* under the three storage conditions decreased with time. In both species, acid treated seeds had the highest germination percentage than untreated seeds. Light brown seeds of *A. nilotica* had the highest germination of 90%, while in *Z. spinachristii*, green seeds had higher germination percentage than light brown or dry seeds.

Keyword

Acacia; *Zizyphilus* : Seed treatments; Percentage germination.