

B39 DEHULLING OF WINGED BEAN SEED (*PSOPHOCAROUS TETRAGONOLOBUS*)

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The performance of two common types of milling machinery, which operate on the principles of abrasive and friction action, for dehulling of mature winged bean seeds subjected to three pre-conditioning treatments, viz, heating, boiling in water followed by drying and soaking in water followed by drying was studied.

Boiling in water for 25 min. and 50 min. followed by sun-drying to 10% seed moisture content and milling gave dehulling efficiencies of 96.5% and 99% with an abrasive type polisher and 88.3% and 95.3% with a friction-type polisher respectively. With pre-heating treatments too, high milling efficiencies of 85% to 95% were obtainable depending on heating time, temperature and the type of mill used. Milling recoveries on average were slightly higher for boiled and sun-dried seed (75%) than for pre-heated seed (70%). Soaking and drying resulted in relatively poor hull removal with both types of milling.