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**Res. Agr. Eng**

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# Effect of moisture content on some engineering properties of mahogany (*Khaya senegalensis*) seed and kernel

Res. Agr. Eng., 60 (2014): 3

Some engineering properties of mahogany seed and kernel were studied as a function of moisture content. In the moisture ranges of 7.1% (d.b.), respectively, the seed and kernel length, width and thickness increased with increase in moisture content. One thousand seed and kernel weight increased with increase in moisture content. True density, bulk density, porosity and angle of repose increased with increase in moisture content. Static and kinetic friction coefficients increased linearly with moisture content and varied with structure. The relationships between the engineering properties and moisture content were used to express the relationships existing between the seed and kernel moisture contents.

## Keywords:

*Khaya senegalensis*; physical properties; frictional properties; thermal properties; specific heat; Nigeria

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