

TECHNICAL SHEET

Raw Gadu et Sunugaal

Presentation of the peanut

Cultivated peanut (*Arachis hypogaea* L.) belongs to the genus *Arachis*, subtribe *Stylosanthinae*, tribe *Aeschynomeneae* and family *Leguminosae*. It is a self-pollinating annual legume (Ntare and al, 2006). In places where bee activity is high, allogamy (cross-pollination) can occur (Nigam and al., 1983 cited by Ntare and al, 2006). The cultivated peanut has two subspecies, *hypogaea* and *fastigiata* (Ntare and al, 2006). Each of these botanical varieties differ in plant, pod, and seed characteristics (Ntare and al, 2006). However, most commercial varieties are the *hypogaea*, *fastigiata* and *vulgaris* varieties (Ntare and al, 2006).

Peanut, native to South and Central America yields oil-bearing grains (ACMA 2, 2019). It is mostly cultivated in several countries but particularly in Asia and Africa especially in Nigeria, Senegal, Republic of Democratic Congo, and Benin (ACMA 2, 2019). Peanut is a plant with multiple benefits and diverse uses (ACMA 2, 2019).

Peanuts are consumed either as seeds (after shelling the pods), as oil (after industrial or artisanal crushing of the seeds), or in elaborate forms from the food and confectionery peanut market ("butter," paste, flour, confectionery, etc.) (SCHILLING, 2001). The by-products have various uses: fodder for the straws; fuel, composting, chipboard for the empty shells; human or animal food for the oil cakes (SCHILLING, 2001). It is a valuable food crop because of its high oil (43-55%) and protein (25-28%) content and provides vitamins and minerals to millions of households (Reddy et al., 2003 cited by Bakoye, 2019).

Peanut pod

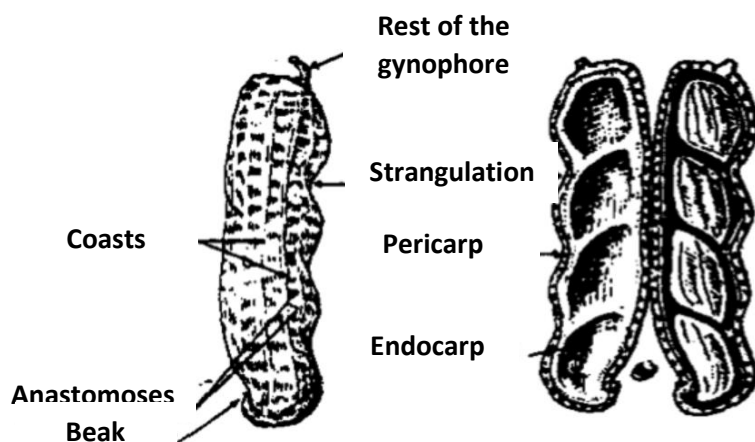


Figure 1 : peanut scheme (source : <http://www.koki-krok.fr/2017/06/un-peu-de-botanique-noisetier-et-arachide-n-appartiennent-pas-a-la-meme-famille.html>)

Characteristics of the technology

Short maturity cycle - 90 days for Raw Gadu and 95 days for Sunugaal; Larger seed size than the popular variety Fleur 11; Pod yield potential of 2.5 t ha⁻¹ for Raw Gadu and 3 t ha⁻¹ for Sunugaal compared to Fleur 11 (2 t ha⁻¹); Hull yield (3 t ha⁻¹ for Sunugaal and 3.5 t ha⁻¹ for Raw Gadu) compared to Fleur 11 (2 t ha⁻¹); High oil content - 46% for Raw Gadu and 49% for Sunugaal.

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