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[\[PDF \(76K\)\]](#) [\[References\]](#)**Sugars Content of Pearl Millet as Diversed among Cultivars and Affected by Germination**Mamudu Halidu Badau<sup>1)</sup>, Israel Afam Jideani<sup>2)</sup> and Iro Nkama<sup>1)</sup>

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Ten pearl millet (*Pennisetum americanum*) cultivars were germinated along with one sorghum cultivar for 96 h. Various sugars were determined at intervals of 24 h over a total of 96 h. The germinated grains were dried and polished. The polished pearl millet malt was milled, defatted and the sugars extracted with 80% ethanol for 6 h. The quantities of individual soluble sugars were estimated with high performance liquid chromatography. The sucrose, maltose, glucose and fructose contents of the grains increased significantly ( $p < 0.05$ ) with increase in germination time. The maltose content of unmalted LCRI-IC 9701, ICMV-IS 94208, GWAGWA, G.1-14.9, GB 8735 and GI-297-1 was not detected. Most of the grains reached their various optimum sugar levels at 72 h of germination. SOSAT C-88 had higher ( $p < 0.05$ ) various sugar levels, followed by ZANGO, G.I-14.9 and G.I-297.1. Therefore, these pearl millet cultivars have been found to be good source of sucrose, maltose, glucose and fructose.

**Key words:** malting, maltose, pearl millet, sorghum, sugar[\[PDF \(76K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

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