

EXPLOITABLE FOREGROUND

New sweet sorghum cultivar – ICSSH 71

Explanation and Purpose

This SWEETFUEL exploitable result presents an improved sweet sorghum hybrid derived from a cross between ICSA 474 x NTJ-2 at ICRISAT- Patancheru, India. It flowers in 66 days and grows to a height of 2.5 m. It gives 46 t ha⁻¹ stalk yield, 23 t ha⁻¹ juice yield, 16.5 % brix, 3.2 t ha⁻¹ sugar yield and 4.5 t ha⁻¹ grain yield. This hybrid is tolerant to mid-season moisture stress. This hybrid is expected to suit multiple cropping systems due to early maturity.



Exploitation Strategy

This variety is well adapted to both rainy and postrainy seasons. Further, it has tolerance to mid-season moisture stress. It can be tested in India, Mexico, South Africa, Brazil, USA, Philippines and China for local adaptation.

IPR Measures

This SWEETFUEL exploitable result is freely available and the breeding material developed is available freely to SWEETFUEL partners and public sector partners, while private partners can avail the material by becoming members of hybrid parents research consortium and complying of appropriate Material Transfer Agreements.

Further Research

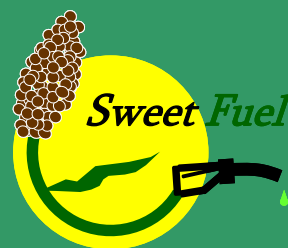
Further research includes further testing in hybrid combination with a set of A-lines in a broader range of environments. Its adaptation to other regions can be assessed through multilocation and multi seasonal trials.

Impact of Exploitation

This variety can be a good source of sugar for biofuel production and it can also be used as fodder, thereby offering opportunities to small farmers for enhancing their income opportunities.

SWEETFUEL

Sweet Sorghum: an alternative energy crop



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