

EXPLOITABLE FOREGROUND

New sweet sorghum cultivar – ICSV 12008

Explanation and Purpose

This SWEETFUEL exploitable result presents an improved sweet sorghum variety derived from a three way cross between (Ch-1 x (ICSV 93046 x SSV 84) at ICRISAT-Patancheru, India. It flowers in 77 days and grows to a height of 3.3 m. It gives 58 t ha⁻¹ stalk yield, 29 t ha⁻¹ juice yield, 18.5 % brix, 4.4 t ha⁻¹ sugar yield and 4.5 t ha⁻¹ grain yield under better management. This variety is moderately tolerant to mid-season moisture stress.



Exploitation Strategy

This variety is well adapted to both rainy and postrainy seasons. Further, it has moderate 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

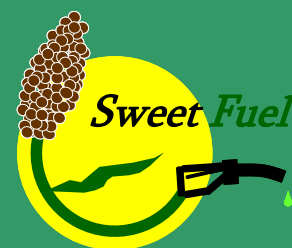
Further research includes further testing in hybrid combination with a set of A-lines in a broader range of environments. Its adaptation to other regions can be assessed through multilocation and multi seasonal trials.

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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