

EXPLOITABLE FOREGROUND

New sweet sorghum cultivar – ICSV 12007

Explanation and Purpose

This SWEETFUEL exploitable result presents an improved sweet sorghum variety derived from a three way cross between (Ch-1 x (DSV 4 x SSV 84) at ICRISAT-Patancheru, India. It flowers in 71 days and grows to a height of 3.4 m. It gives 57 t ha⁻¹ stalk yield, 29 t ha⁻¹ juice yield, 18.5 % brix, 4.2 t ha⁻¹ sugar yield and 4 t ha⁻¹ grain yield under better management. This variety is moderately tolerant to mid-season moisture stress. This variety 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 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

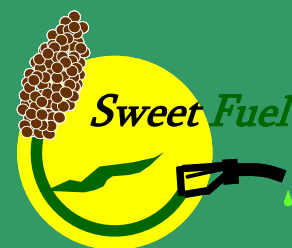
Further research includes further testing in hybrid combination with a set of A-lines in a broader range of environments. Its adaptation to other regions can be assessed through multilocation and multi seasonal trials.

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



Contact for Exploitable Result:

ICRISAT, India
P. Srinivasa Rao
p.srinivasarao@cgiar.org



Project Coordination:

CIRAD, France
Serge Braconnier
serge.braconnier@cirad.fr



Project Dissemination:

WIP – Renewable Energies, Germany
Rainer Janssen
Dominik Rutz
rainer.janssen@wip-munich.de
dominik.rutz@wip-munich.de



SWEETFUEL Website:
www.sweetfuel-project.eu



SWEETFUEL is co-funded by the
European Commission in the
7th Framework Programme
(Project No. FP7-227422)