

EXPLOITABLE FOREGROUND

Sweet Sorghum Variety for Sweet Sorghum Hybrids in Mexico – MEXINDU

Explanation and Purpose

This genotype shows fertility restorer reaction on C1 cytoplasm. This male is a derivative of Urja. It was selected at the Facultad de Agronomía of the UANL to improved grain production in the panicle. Mass selection was used for three generations. During the SWEETFUEL project it was used with female lines to produce good sweet sorghum hybrids with °Brix values higher than 18. The experimental hybrids showed good expression on °Brix and juice production.



Exploitation Strategy

Due to the good characteristics associated with °Brix and juice production, this male needs to be tested on the new female sweet sorghum lines. This genotype can also be used to cross with other sweet sorghum males using hand emasculation to produce new combinations and new males with high sweetness and juice. This male itself can be used in a commercial production systems focused on ethanol production or forage production because of high productivity levels.

IPR Measures

Patent application was initiated at SERVICIO NACIONAL DE INSPECCION Y CERTIFICACION DE SEMILLAS (SNICS), the Mexican National System for registration and certification of seeds.

Further Research

This male shows some variation due to the open pollinated characteristics. The variety needs to be more uniform through several self-generations. It is important to produce more homogeneous genotypes to produce more uniform sweet sorghum hybrid. This male needs to be tested with a wide range of sweet sorghum female lines to increase the probability to produce better sweet sorghum hybrids.

Impact of Exploitation

The use of this male variety will produce good forage quality and high yield. This male will increase the probability to find better sweet sorghum hybrids for ethanol production.

SWEETFUEL

Sweet Sorghum: an alternative energy crop



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