

Hybrid Sorghum Seed Production Breeding And Research

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Hybrid Sorghum Seed Production Breeding

HYBRID SEED PRODUCTION IN SORGHUM Breeding technique for Comme rcial production Cytoplasmic genetic male sterility (CGMS) Seeds produced in different stages Nucleus seed stage : Maintenance of basic source by seed to row progenies. Breeder Stage : A (AxB), B and R line are multiplied

HYBRID SEED PRODUCTION IN SORGHUM Breeding technique for ...

Sorghum genetics, breeding, and hybrid' seed production. In sorghum, hybrid breeding is a three-line system as it involves "A" ms line, "B" maintainer line, and "R" fertility restorer line. "A" line on pollination with the "R" line restores fertility of "A" lines and develops heterotic fertile F 1 seeds.

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Breeding objectives are discussed and information is given on the inheritance of growth period, height, grain colour, stem dryness and sweetness, type of endosperm starch, presence or absence of awns and male sterility. Breeding for resistance to diseases, insects, Striga spp. and birds is discussed. Reference is made to a world varietal collection, interspecific hybridization within the genus,...

Sorghum genetics, breeding, and hybrid' seed production.

The following points highlight the four main steps of hybrid seed production. The steps are: 1. Choice and Development of Seed Parent (A-Line) 2. Choice and Development of Restorer or Male Parent (R-Line) 3. Maintenance and Multiplication of Parental Seeds 4. Production and Improvement of F 1 Hybrids. Step # 1.

4 Main Steps of Hybrid Seed Production | Plant Breeding

Choice of breeding methodology in sorghum depends on the type of cultivar (varieties/hybrids) intended to be developed. In the development of lines and varieties in often cross pollinated crop like sorghum, breeding procedures applicable to self pollinated crops are followed.

Conventional Breeding Techniques in Sorghum - ScienceDirect

Early in his breeding program for improv ing growth rate and yield, the author found that the F₁ hybrids, even those produced by using dwarf grain sorghum male-sterile lines as seed parents, gave high forage yield (Tarumoto and Oizumi 1967a, 1968a and 1969a).

Breeding Method of Hybrid Forage Sorghum by using Male ...

The conventional F₁ hybrid seed production systems have depended on hand emasculat ion, genetic, cytoplasmic genetic male sterility and self-incompatibility, etc. In most cases these systems have some disadvantages, involving cost, efficacy, ease of use, reliability and effect of environmental factors leading to breakdown of the systems.

Mechanisms for Hybrid Seed Production | Vegetable Breeding

The procedures for hybrid seed production in both sorghum and pearl millet are similar. Both crops use cytoplasmic-genetic male sterility system in hybrid seed production that is caused by an interaction of the sterility-inducing factors in the cytoplasm with the genetic factors in the nucleus.

Seed Production Procedures in Sorghum and Pearl Millet

SORGHUM Breeding best in class forage and grain seed varieties Request Product Information "Sorghum is considered one of the indispensable crops in the world. Our breeding program has developed a portfolio of both forage and grain hybrid sorghum seed varieties, that consistently out yield commercial competitors in select markets."

Sorghum - S&W Seed Co

History of sorghum breeding- the hunt for cytoplasmic male sterility The hybrid vigor was first recognized in sorghum by Karper and Corner, in 1927- produced by hand-emasculat ion In 1948, researcher initiated studies to look for cytoplasmic male sterility as a method for commercial seed production in sorghum Reciprocal crosses between Milo and Kafir produced first evidence that a male sterility inducing cytoplasm has been found (Stevens and Holland, 1954)

Breeding sorghum - LinkedIn SlideShare

Australia and China produce sorghum on a commercial basis, principally for feed, export and recently also biofuel (ethanol). Due to the use of hybrid seed and modern farming practices, grain yields are relatively high (~ 4 t ha-1) in these countries. However, it has to be taken into

Breeding strategies for the adaptation of sorghum (Sorghum ...

proven, dependable medium-early hybrid forage sorghum adapted in a wide range of growing conditions. This hybrid averages about 6' to 7' and has excellent standability throughout the growing season. Good stress tolerance helps carry NK300 through stressful conditions. In some areas it is approved as a cover crop.

NK300 - S&W Seed Co

The F₁ hybrid seeds are then planted to produce the commercial crop. Much of the breeder's work in this process is in developing the pure-breeding sterile and fertile strains to begin the hybrid seed production.

Plant breeding - Hybrid varieties | Britannica

Current varieties under maintenance breeding for seed multiplication are Rok5, Rok10, Rok14 and Rok24. Due to the slow pace in rice varietal purification and releases, the seed program under the SMP, has embarked on improving seed quality through maintenance breeding and intensive panicle selection.

SEED PRODUCTION MANUAL

Famous sorghum breeder of the American F.R. Miller has noticed that sweet sorghum with high energy will be bred by recreating process of inheritance. We has bred a sweet sorghum hybrid, Shennog No.2, based on the above theory. And the research result will be reported in this paper. 2.1.1 The diversity of sweet sorghum

2. Breeding and cultivation of sweet sorghum

The sorghum seeds can be processed in OSAW cleaner cum grader using 9/64" round perforated metal sieve. Seed treatment and storage The seeds are treated with captan or thiram @ 2 g/kg of seed and pack it in cloth bag at 12% moisture content for short term storage and 8% moisture content in 700 gauge poly ethylene bag for long term storage (or)

GPBR112 :: Lecture 12 :: HYBRID SEED PRODUCTION IN SORGHUM

private sector seed companies wherein the partners, depending on their skills and resources, develop the hybrids for commercial use. Trait-based breeding approach followed by the sorghum breeders at ICRISAT helped to focus on breeding for large-grained high yielding temperature-insensitive parents. The process at ICRISAT ICRISAT started a program on diversifying sorghum female parents in early 1980s: A range

An ICRISAT-Private Sector Success Story

A group of researchers from the Department of Plant Breeding at University of Giessen and the NPZ Innovation GmbH have conducted a study on reproductive cold stress tolerance in Sorghum F₁ hybrids. According to the study, the production of large pollen quantity with sufficient vitality also at lower temperature is considered to be the underlying physiological process to ensure seed set under cold stress in sorghum.