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SORGHUM

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BREEDING.

Introduction Sample  
Clauses

Richardson Seeds.  
Richardson Seeds,  
Ltd., originally  
Richardson Seed  
Farms, has a long  
legacy in the hybrid  
sorghum industry  
dating back to 1941  
when C.G.  
Richardson  
purchased the land



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on which the  
headquarters is  
located today.

Around 1945, the  
first wooden  
granaries were built  
to store grain.

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

History of sorghum  
breeding- the hunt

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for cytoplasmic male sterility The hybrid vigor was first recognized in sorghum by Karper and Corner, in 1927- produced by hand-emasculatation In 1948, researcher initiated studies to look for cytoplasmic male sterility as a method for commercial seed

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Research

production in  
sorghum Reciprocal  
crosses between  
Milo and Kafir  
produced first  
evidence that a male  
...

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

This has led to  
dominance of sorgh

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um-sudangrass hybrids in the forage seed market. The future challenges include breaking the biomass yield plateau, overcoming the forage quality vis-à-vis lodging and pest susceptibility issues, increasing the protein content, and enhancing the

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seed production  
potential in sudangr  
ass-introgressed  
varieties and hybrid  
parents.

Cytoplasmic  
Male?Sterility For  
Hybrid Sorghum  
Seed ...  
US based S&W  
provides expertise  
in agricultural  
breeding,

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production and  
Breeding And  
Research  
alfalfa, sunflower,  
sorghum species,  
and stevia

industries. In 2016,  
S&W acquired  
Australian based SV  
Genetics, a sorghum  
and sunflower  
genetics company.  
This was followed in  
2018 by the  
acquisition of

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sorghum seed  
company Chromatin  
Inc. in the USA.

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PRODUCTION IN  
SORGHUM Breeding  
technique for  
Commercial  
production

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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

Foundation Stage ...



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Home - SeedVision  
Breeding And  
Research  
is markedly

expressed in F1  
hybrids of grain  
sorghum (Karper  
and Quinby 1937,  
Quinby 1963,  
Quinby et al. 1958) .  
Already in 1964,  
when the author  
initiated his  
breeding of forage  
sorghum in Japan,

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everyone was familiar with the impact on production achieved by the commercial use of hybrid grain sorghum.

2. Breeding and cultivation of sweet sorghum

DESSE SEED PTY LTD has been

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Breeding And  
Research

established to focus  
on the commercial  
breeding and sale of  
Hybrid Sorghum  
Varieties. DESSE  
SEED still holds true  
the values proven  
by previous  
generations of  
Dessert Seeds:  
reliability, quality  
and honesty. DESSE  
SEED PTY LTD head  
office is located

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township of  
Kununurra in the  
Ord River Irrigation  
Area.

Breeding Sorghum  
for Diverse End  
Uses | ScienceDirect  
SORGHUM Breeding  
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and grain seed  
varieties Request  
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"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

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select markets."

## Conventional

### Breeding

### Techniques in

### Sorghum -

### ScienceDirect

hybrids. There are also some

differences in the seed production

methods between sorghum and pearl

millet because of the

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difference in floral biology. However, the procedures for hybrid seed production in both the crops are more or less the same.

Sorghum genetics, breeding, and hybrid' seed production.

For F 1 hybrid seed production, A-line

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and R-line are grown together in 4: 2 ratio in hybrid production block (Fig. 7.1). The arrangement is same except the B-lines have been substituted by R-lines. At maturity the seeds of A-rows are harvested separately and carefully as these hybrids and also the



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R-line seeds are harvested for next use.

Mechanisms for  
Hybrid Seed  
Production |  
Vegetable Breeding  
The sorghum seeds  
can be processed in  
OSAW cleaner cum  
grader using 9/64"  
round perforated  
metal sieve. Seed

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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)

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

First, seed  
production and  
processing will use  
short grain-type  
female lines that can  
easily be harvested  
using technology  
already used by the  
sorghum seed

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industry. Second, use of hybrids will allow breeders and producers to capture hybrid vigor; early estimates indicate that hybrids will average 120% the yield of the high producing parent in the hybrid.

Seed Production

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Procedures in  
Breeding And Pearl  
Sorghum and Millet  
Research

Alcohol production of stem juice among Keller, Wray and 623A x Roma was similar but higher than that of other varieties. In developed countries, the stem yield was mainly concerned and

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attention was not paid to grain in sweet sorghum breeding, because only sweet sorghum stem with exclusion of grain was harvested by machines.

Breeding sorghum -  
SlideShare

5.4. Production of  
Hybrid Seed. Hybrid

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seed is produced by  
crossing A × R lines  
in breeder seed

production plot . In  
sorghum, generally  
followed female to  
male ratio is 4:2.

Frequent visits to  
seed production  
plots are necessary  
to remove the off-  
type plants to  
maintain the quality  
and genetic purity of

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hybrid seeds.

Desse Seed |

Growing Results

1.4 Crop types of  
sorghum 7 1.5

Breeding of

sorghum 10 1.5.1

Historical aspects

10 1.5.2 Hybrid

breeding in

sorghum 11 1.5.3

Recent

developments in



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13 1.6 Importance  
and perspectives of  
sorghum in Europe  
15 1.7 Scope and  
aims 18 2

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Designing adapted  
sorghum silage  
types with an  
enhanced energy 19

HYBRID SEED  
PRODUCTION IN

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SORGHUM Breeding  
technique for ...

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.

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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 – S&W  
Seed Co

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Sujay Rakshit,  
Amasiddha

Bellundagi,  
Conventional  
Breeding

Techniques in  
Sorghum, Breeding  
Sorghum for Diverse  
End Uses, 10.1016/B  
978-0-08-101879-8.0  
0005-X, (77-91),  
(2019). Crossref  
André Schaffasz,  
Steffen

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Seed Production,  
Breeding And  
Research  
Windpassinger, Rod  
Snowdon, Benjamin  
Wittkop,

Reproductive Cold  
Stress Tolerance in  
Sorghum F1 Hybrids  
is a Heterotic Trait,  
Agronomy, 10.3390/  
agronomy9090508, 9  
, 9, (508), (2019).

4 Main Steps of  
Hybrid Seed  
Production | Plant

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Although discovery of cytoplasmic genetic male sterility in onion by Jones and Clarke has been instrumental in application of this system in hybrid seed production on large scale in several crops, particularly the 4 crops, namely,

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Research

onions, pear millet,  
sunflower and grain  
sorghum, and now  
rice the

contributions of F.V.  
Owen, M.M.

Rhoades, L.M.

Josephson, M.T.

Jenkins, H.L.

Everette, P.C ...

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