

1ST EUROPEAN SORGHUM CONGRESS

WORKSHOP

INNOVATIVE RESEARCH TOWARDS GENETIC PROGRESS

SEED BREEDING: QUALITY AS AN ASSET

**Maximising results through genetic diversity,
innovation and seed quality**





ASSOCIATION DESCRIPTION



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GENERAL OVERVIEW OF SORGHUM SEED PRODUCTION IN EUROPE (2015)



Source: Gnis

EC NORMS FOR SORGHUM SEED MARKETING VARIETIES REGISTRATION

Council directive 2002/53/EC

● DUS and VCU testing

EU catalogue:

Sorghum bicolor (L.) Moench: 244

Sorghum sudanense (Piper) Stapf: 18

Sorghum bicolor (L.) Moench x *Sorghum sudanense* (Piper) Stapf: 50



Source: Gnis

EC NORMS FOR SORGHUM SEED MARKETING CONDITIONS FOR CROP CERTIFICATION

Council directive 66/402/EC

- Isolation distance: 300m
- Official checks for varietal identity and purity
- Maximum threshold for impurities (hybrid varieties)
 - Parental male line: 0,1%
 - Parental female line
 - At flowering stage: 0,3% including 0,1% fertile of the same type
 - At maturity stage: 0,1%



Source: Gnis

EC NORMS FOR SORGHUM SEED MARKETING CONDITIONS FOR CROP CERTIFICATION

Focus on impurities

Five off-types or variants:

- grain outcrosses,
- height mutation, ←
- forage outcrosses,
- johnsongrass (*Sorghum halepense*),
- shattercane (*Sorghum x drummondii*)



Source: aganytime.com

Field inspections and official checks are done to eliminate those impurities

EC NORMS FOR SORGHUM SEED MARKETING CONDITIONS FOR SEEDLOT CERTIFICATION

Council directive 66/402/EC

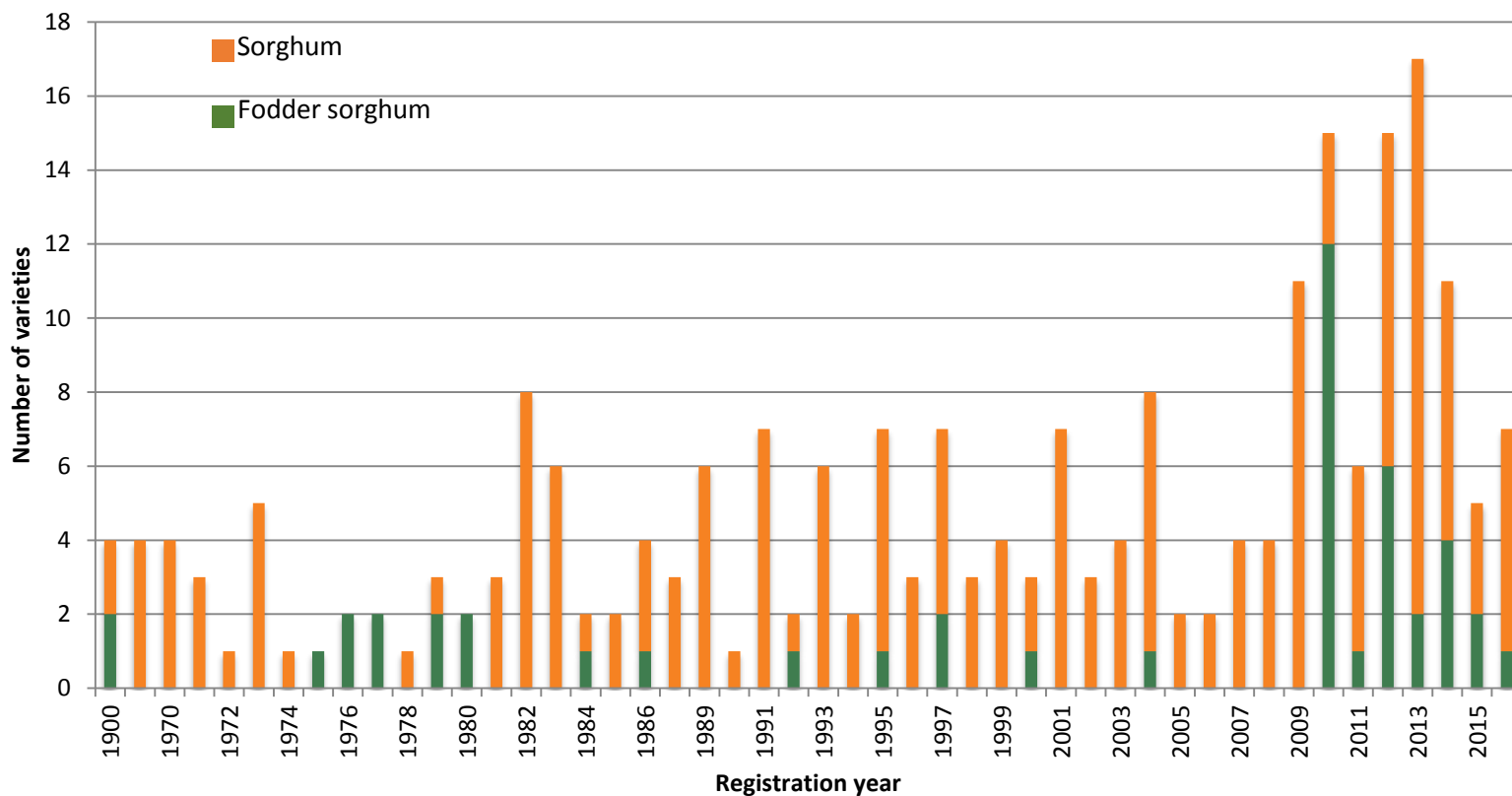
- The seed shall conform to the following standards:
 - Minimum germination: 80%
 - Minimum analytical purity: 98%
 - Maximum content of seeds of other plant species: 0



Source: Gnis

EXAMPLE OF FRANCE

Evolution of the registration number in the French catalogue



Source: Geves

EXAMPLE OF FRANCE

Number of cultivars multiplied in 2015

	Sorghum		Sorghum sudan x bicolor	Sorghum sudan
	Varieties	Parental lines	Varieties	Parental lines
EU catalogue	14	6		
National catalogue	28	27	1	
Under registration in France	10	17		
Under registration in EU or OECD	9	16		10
Total	61	66	1	10



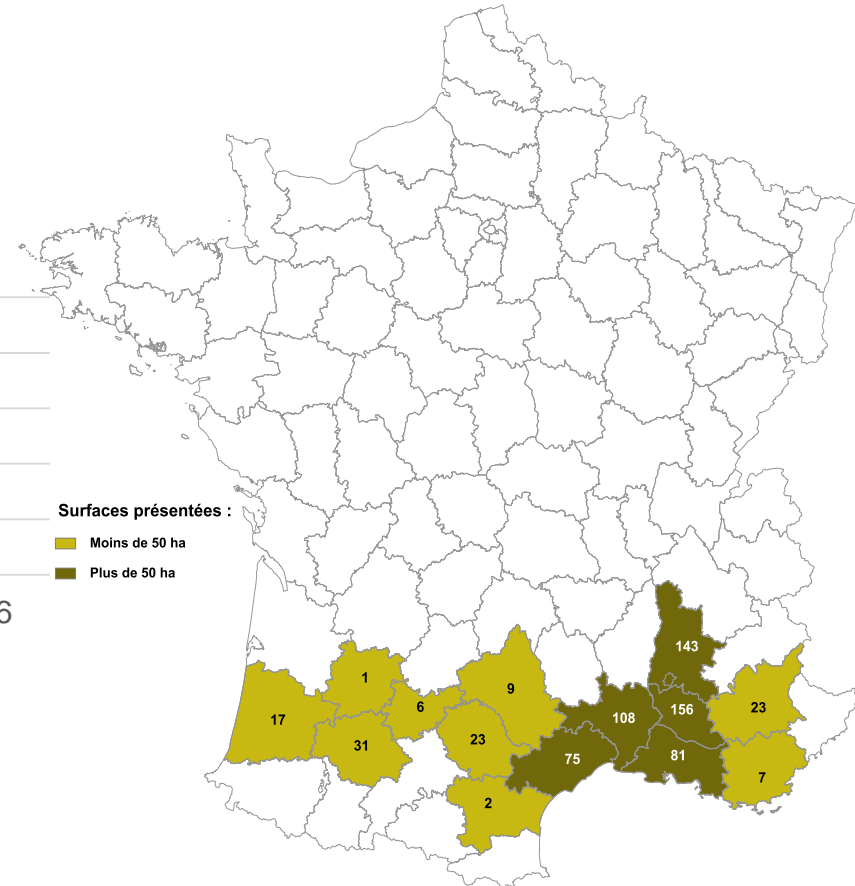
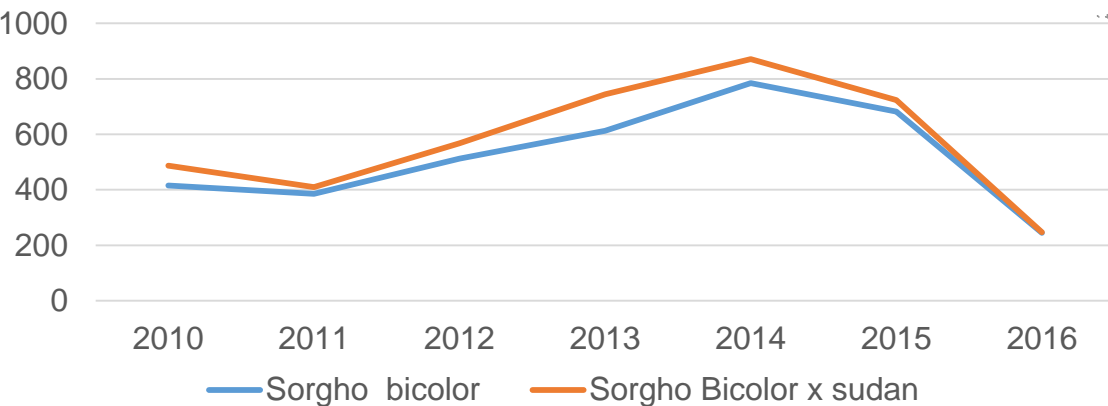
Source: Gnis

EXAMPLE OF FRANCE

Production in 2015

Production area

Multiplication of sorghum seeds in France





SEED BREEDING: QUALITY AS AN ASSET

EXAMPLE OF FRANCE

CROP PRODUCTION

Results of conformity (Sorghum Bicolor)

2015: 98,9% of sorghum seed crops conform

2014: 99% of sorghum seed crops conform



EXAMPLE OF FRANCE

Certified quantities in 2015

Certified quantities (tons)	Sorghum	Sorghum sudan	Sorghum sudan x bicolor
Pre basic and basic	11	1	0,8
Certified	411	22	140
Total	422	23	141



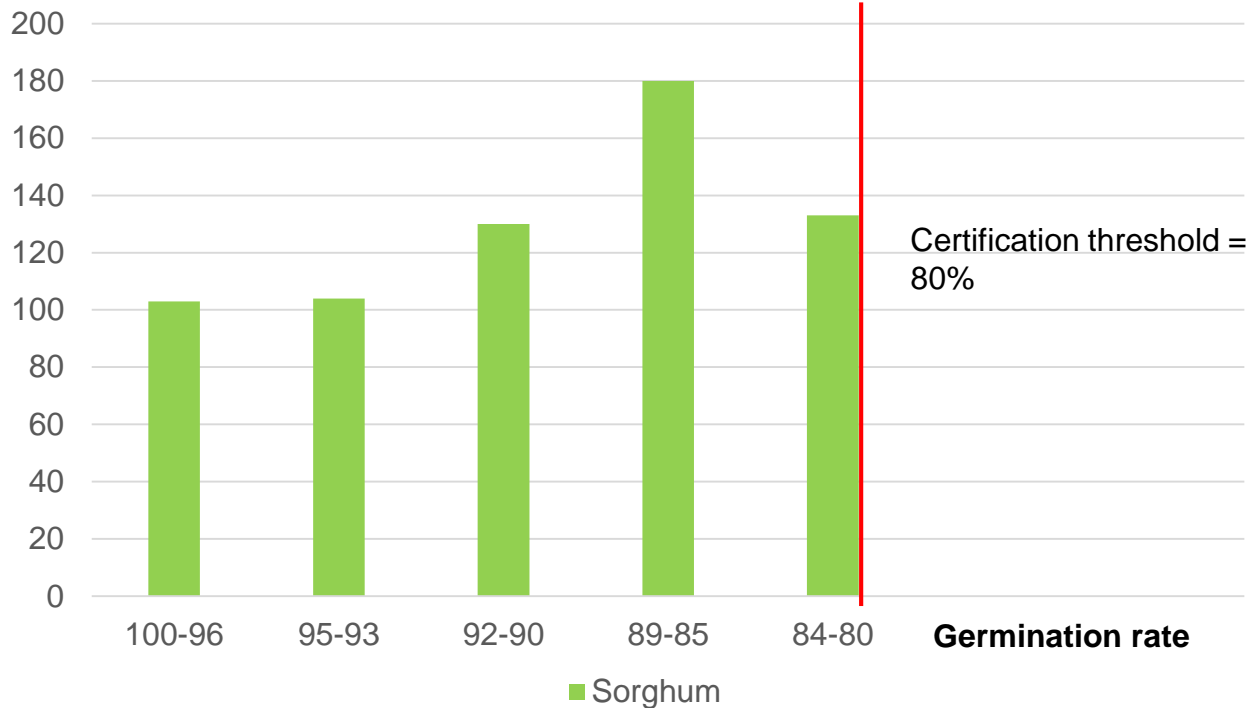
Source: Gnis

EXAMPLE OF FRANCE

Results for germination

Distribution of germination for sorghum seedlots in France in 2015

Nb of seedlots



Average
88,5% of
germination

Thank you for your attention

Time for discussion...



Source: Gnis