Fact Sheet

SORONIA

Perennial Ryegrass (4n)

Lolium perenne L.

Yielding as high as hybrid-ryegrass

Things to know

Soronia has been created by crossing tetraploid, early maturing Agroscope breeding material with the late maturing varieties Pandora, Elgon and Pastoral. Heading date is two days earlier than for the variety Allodia In the official trials from 2014 to 2016, Soronia convinced by a very high yield potential, being much higher than for the current top variety Allodia. The high yield potential comes along with no penalty in digestibility of organic matter. However, persistence of the top variety Soraya was not reached.

Descent

Base material

Selection from crosses of Agroscope breeding material (early maturing) with the late maturing varieties Pandora, Elgon and Pastoral

M0 seed

Row trial 2005 (LP0575) with seed harvest on 9 half-sib families from a polycross with 10 clones.

Literature

Suter D.,Hirschi H.-U.,Frick R., 2017. Englisches Raigras: neue Sorten für den Schweizer Kunstfutterbau empfohlen. Agrarforschung Schweiz 8(7), 292-299

National listing

Situation in Switzerland

On the Swiss List of Recommended Varieties of Forage Plants since 2017

Situation abroad

Agronomic caracteristics

Results of the official Swiss variety trials 2014-2016 (Suter et al. 2017) (4n, spät))

	SORONIA	Mean
Yield	2.6	4.9
General impression	3.3	3.5
Juvenile growth	2.0	2.6
Competing ability	5.2	5.7
Persistence	4.7	4.6
Resistance to winter conditions	4.5	4.7
Resistance to leafspots an rust	2.8	3.8
Digestibility of the organic matter	5.3	5.0
Persistence at higher altitudes	3.0	3.2
Index (weighted average of all notes)	3.8	4.3

Scoring scale	1 = very good; 5 = medium; 9 = very poor
Yield	Mean of 4 experimental sites over 2 years
Mean	Mean value of standard varieties

Description according to UPOV gidelines

DUS test conducted at Scharnhorst, BSA (DE), 2015-2016

UPOV No	Characteristics	State of expression	Note
1	Ploidy	tetraploid	4
10	Plant: tendency to form inflorescences (without vernalization)	very weak to weak	2
11	Time of inflorescence emergence (after vernalization)	medium	5
14	Flag leaf: length	medium to long	6
15	Flag leaf: width	broad to very broad	8
17	Plant: length of longest stem including inflorescence	long	7
24	Plant: tendency to form inflorescences in aftermath	very weak to weak	2

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