

Fact Sheet

XANTHIA

Italian Ryegrass (2n)

Lolium multiflorum Lam.

Things to know

The basis of the variety Xanthia is formed by material from the Agroscope breeding program, of which also the varieties Tigris and Caribu originate, whereby maturity is similar to Caribu. Thanks to a strong selection for resistance against leaf diseases (also via artificial infection with Bipolaris sorokiniana) over multiple generations, Xanthia exhibits a very healthy foliage. At the moment of its admission, Xanthia was the highest yielding variety on the Swiss list of recommended varieties of forage crops.

Descent

Base material

Breeding material tracing back to the varieties Caribu and Tigris selected on resistance to bipolaris diseases.

M0 seed

Row trial 2006 (LI0615) with 9 clone progenies from a polycross with 23 clones.

Literature

Suter D., Frick R., Hirschi H.-U., Aebi P., 2015. Prüfung von Italienischem Raigras: Bewährungsprobe für 37 Sorten. Agrarforschung schweiz 6(6), 248-255

National listing

Situation in Switzerland On the Swiss List of Recommended Varieties of Forage Plants since 2016

Situation abroad AT

Agronomic caracteristics

Results of the official Swiss variety trials 2012-2014

(Suter et al, 2015) (diploide Sorten)

(Sator Stall, 2010) (diploted Softerly	XANTHIA	Mean
Yield	2.5	3.8
General impression	2.9	3.3
Juvenile growth	2.9	2.7
Competing ability	3.3	3.6
Persistence	4.3	4.4
Resistance to winter conditions	4.0	4.0
Resistance to leafspots an rust	2.8	3.2
Resistance to bacterial wilt	2.1	2.0
Digestibility of the organic matter	6.3	5.3
Index (weighted average of all notes)	3.3	3.6

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

Description according to UPOV gidelines

DUS test conducted at Scharnhorst, BSA (DE), 2013-2015

onadotod at Conaminorot, Dort (DL), Loro I	2010	
Characteristics	State of expression	Note
Ploidy	diploid	2
Leaf: intensity of green color	medium	5
Plant: tendency to form inflorescences (without vernalization)	very weak to weak	2
Time of inflorescence emergence (after vernalization)	medium	5
Flag leaf: length	medium	5
Flag leaf: width	narrow to medium	4
Plant: length of longest stem including inflorescence	medium	5
	Characteristics Ploidy Leaf: intensity of green color Plant: tendency to form inflorescences (without vernalization) Time of inflorescence emergence (after vernalization) Flag leaf: length Flag leaf: width Plant: length of longest stem including	Ploidy diploid Leaf: intensity of green color medium Plant: tendency to form inflorescences (without vernalization) Time of inflorescence emergence (after vernalization) Flag leaf: length medium Flag leaf: width narrow to medium Plant: length of longest stem including medium

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