



# XANTHIA

## Italian Ryegrass (2n)

*Lolium multiflorum Lam.*

High yields of healthy forage

### 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 for resistance to bipolaris disease.

### MO seed

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

### Literature

Suter D., Frick R., Hirschi H.-U., 2021. Schweizer Kunstfutterbau: Italienische Raigräser Maggyl und Oryttus setzen neue Massstäbe. Agrarforschung Schweiz 12(1), 128-136  
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

#### Further registered in the following countries

AUT, DEU

### Agronomic characteristics

Results of the official Swiss variety trials 2018-2020 (Suter et al, 2021) (diploide Sorten)

	XANTHIA	Mean
Yield	5.0	4.4
General impression	4.3	4.2
Juvenile growth	3.4	3.4
Competing ability	3.9	3.9
Persistence	5.7	5.6
Resistance to winter conditions	3.3	3.0
Resistance to leafspots an rust	4.5	4.6
Resistance to bacterial wilt	4.9	4.0
Digestibility of the organic matter	6.0	5.7
Index (weighted average of all notes)	4.5	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 guidelines

DUS test conducted at Schamhorst, BSA (DEU), 2013-2015

UPOV No	Characteristics	State of expression	Note
1	Ploidy	diploid	2
5	Leaf: intensity of green color	medium	5
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	5
15	Flag leaf: width	narrow to medium	4
17	Plant: length of longest stem including inflorescence	medium	5