Fact Sheet

MORUNGA

Italian Ryegrass (4n)

Lolium multiflorum Lam.

Things to know

The variety Morunga has been developed from a colchicine treatment of breeding material of the variety Oryx. Morunga is currently the earliest variety on the German list of varieties of Italian ryegrass. This precocity enables high yields at an early utilisation and it has a strong effect on the suppression of weeds. The distinctive resistance against bacterial wilt forms the basis for the good endurance of Morunga. The high digestibility qualities and the strong resistances against leaf diseases guarantee a wholesome fodder.

Descent

Base material

Selection within tetraploid breeding material of ART Reckenholz, emerged from a colchicine treatment of the variety Oryx. Selected on a bright leaf colour.

M0 seed

Row trial 2000 (LI0055) with seed harvest in 11 clone descendances from a polycross with 12 components.

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 2010

Further registered in the following countries

DEU,AUT

Agronomic caracteristics

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

	MORUNGA	Mean
Yield	4.1	4.2
General impression	3.9	4.1
Juvenile growth	2.5	2.6
Competing ability	3.7	3.9
Persistence	5.7	5.7
Resistance to winter conditions	2.6	2.8
Resistance to leafspots an rust	3.4	3.6
Resistance to bacterial wilt	1.5	2.4
Digestibility of the organic matter	4.3	4.5
Index (weighted average of all notes)	3.6	3.8

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 (DEU), 2006-2008

UPOV No	Characteristics	State of expression	Note
1	Ploidy	tetraploid	4
5	Leaf: intensity of green color	medium	5
10	Plant: tendency to form inflorescences (without vernalization)	absent or very weak	1
11	Time of inflorescence emergence (after vernalization)	early	3
14	Flag leaf: length	medium to long	6
15	Flag leaf: width	medium to wide	6
17	Plant: length of longest stem including inflorescence	medium to long	6

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Authors: Christoph Grieder and Peter Tanner, Agroscope

www.agroscope.ch www.futterpflanzen.ch

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