

Fact Sheet

MIDAS

Italian Ryegrass (4n)

Lolium multiflorum Lam.

Things to know

Together with Morunga, Midas is the highest yielding recommended variety of Italian ryegrass. Also the resistance of Midas against leaf diseases and bacterial wilt is outstanding. Owing to ist descent, Midas combines the strong growth in spring of Swiss ecotypes from marginal areas with the established resistance to diseases of the variety Axis, which is even reinforced in the tetraploid state.

Descent

Base material

Colchicine treatment of diploid breeding material of ART Reckenholz tracing back to crossings between the varieties Axis and Oryx.

M0 seed

Row trial 2004 (LI0455) with seed harvest on 15 clone progenies from a polycross with 23 components.

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

Suter D.,Hirschi H.-U.,Chapuis St., 2010. 29 Neuzüchtungen von Italienischem Raigras geprüft. Agrarforschung Schweiz 1(7), 280-285

National listing

Situation in Switzerland

On the Swiss List of Recommended Varieties of Forage Plants since 2010

Situation abroad

ΑT

Agronomic caracteristics

Results of the official Swiss variety trials 2012-2014

(Suter et al, 2015) (4n)

(Sutor St al, 2010) (411)	MIDAS	Mean
Yield	2.5	3.6
General impression	3.1	3.4
Juvenile growth	1.8	1.9
Competing ability	3.1	3.5
Persistence	3.9	4.4
Resistance to winter conditions	3.5	3.4
Resistance to leafspots an rust	2.4	2.6
Resistance to bacterial wilt	1.9	1.6
Digestibility of the organic matter	4.7	4.2
Index (weighted average of all notes)	3.0	3.2

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), 2008-2010

Characteristics	State of expression	Note
Ploidy	tetraploid	4
Leaf: intensity of green color	medium	5
Plant: tendency to form inflorescences (without vernalization)	absent or very weak	1
Time of inflorescence emergence (after vernalization)	early to medium	4
Flag leaf: length	long	7
Flag leaf: width	medium to wide	6
Plant: length of longest stem including inflorescence	medium to long	6
	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 tetraploid Leaf: intensity of green color medium Plant: tendency to form inflorescences (without vernalization) Time of inflorescence emergence (after vernalization) Flag leaf: length long Flag leaf: width medium to wide Plant: length of longest stem including medium to long

Version: 12.07.2018

Publisher: Agroscope, Reckenholzstrasse 191, 8046 Zürich In Collaboration with: Delley Seeds and Plants Ltd (DSP), 1567 Delley

Authors: Christoph Grieder and Peter Tanner, Agroscope

Copyright: © 2018, Agroscope



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizza

Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER