Fact Sheet

MARMOTA

Hybrid Ryegrass (4n)

Lolium x hybridum Hausskn.

Things to know

MARMOTA is a hybrid ryegrass of the type of a perennial ryegrass. In the summer growth MARMOTA does not form more reproductive tillers than typical varieties of perennial ryegrass. Therefore, its digestibility is considerably better than all of our other varieties of hybrid ryegrass. Furthermore, it shows a superior endurance compared to previously known types of ryegrass. From 1998 to 2000, MARMOTA was tested along with the recommended assortment of perennial ryegrass and showed by far the highest yields. When used uniquely for cutting, MARMOTA could be used in mixtures of grass and white clover as a substitute for perennial ryegrass.

Descent

Base material

Crossbreeding between tetraploid Italian ryegrass and tetraploid perennial ryegrass from Swiss ecotypes. Priority was set on small leaf width during the selection to a polycross.

M0 seed

Polycross 1991 (G9134) with 6 clones.

Literature

Frick R.,Suter D.,Dereuder E.,Hirschi H.-U., 2021. Sortenprüfung für Futterpflanzen: zwei Neuerungen beim Bastard-Raigras. Agrarforschung Schweiz 12(1), 151-156

Suter D.,Frick R.,Hirschi H.-U.,Aebi P., 2015. Bastard-Raigras: 26 Sorten im Feld geprüft. Agrarforschung Schweiz 6(9), 392-399

National listing

Situation in Switzerland

On the Swiss List of Recommended Varieties of Forage Plants since 2001

Further registered in the following countries

LUX

Agronomic caracteristics

Results of the official Swiss variety trials 2018-2020 (Frick et al. 2021) (Typ "IR/ER")

	MARMOTA	Mean
Yield	4.4	4.9
General impression	3.6	3.7
Juvenile growth	2.8	2.7
Competing ability	5.1	5.0
Persistence	3.9	4.8
Resistance to winter conditions	4.4	3.9
Resistance to leafspots an rust	2.0	2.5
Resistance to bacterial wilt	5.0	3.6
Digestibility of the organic matter	5.3	4.9
Index (weighted average of all notes)	4.2	4.1

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), 2002-2004

UPOV No	Characteristics	State of expression	Note
1	Ploidy	tetraploid	4
3	Plant: tendency to form inflorescences (without vernalization)	very weak to weak	2
5	Leaf: color in the year of sowing	medium green to dark green	6
8	Time of inflorescence emergence (after vernalization)	very early	1
10	Flag leaf: length	long	7
11	Flag leaf: width	broad	7
12	Plant: length of longest stem including inflorescence	long to very long	8

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