



ARVICOLA

Perennial Ryegrass (4n)

Lolium perenne L.

Things to know

ARVICOLA emerged from the very early breeding material of the type ARION treated with colchicine. The tetraploid condition allows an important enhancement of the resistance to snow mould diseases. ARVICOLA has by far the best aptitude of all available varieties for the cultivation at higher altitudes which are moderately suited for ryegrass. It is just as early ripening as ARION and reaches in the first week of May the time to cut for a conservation crop of a very good quality. In summer, ARVICOLA does not form any reproductive tillers further on and provides well digestible fodder, rich of leaves.

Descent

Base material

Breeding material of the type of Arion, treated with colchicine. Leading back to Swiss ecotypes 1972.

M0 seed

Row trial 1989 (LP8915/25) with 68 clone progenies from a polycross in 1987

Literature

Suter D., Frick R., Hirschi H.-U., 2023. Sortenprüfung Englisches Raigras: Sechs Neuzüchtungen nehmen die agronomische Hürde. Agrarforschung Schweiz 14(1), 122-129

Kempf K., Schubiger F.-X., Tanner P., Grieder C., 2020. Mehr Gene, mehr Leistung: die neuen Englisch-Raigras-Sorten von Agroscope. Agrarforschung Schweiz 11(1), 1-8

National listing

Situation in Switzerland

On the Swiss List of Recommended Varieties of Forage Plants since 1996

Further registered in the following countries

DEU, LUX, CAN, AUT

Agronomic characteristics

Results of the official Swiss variety trials 2020-2022 (Suter et al. 2023) (4n, früh-mittelfrüh)

	ARVICOLA	Mean
Yield	5.2	4.2
General impression	2.8	2.6
Juvenile growth	2.2	2.1
Competing ability	4.2	4.3
Persistence	3.1	2.9
Resistance to winter conditions	3.3	3.3
Resistance to leafspots an rust	4.1	3.6
Digestibility of the organic matter	3.0	3.3
Persistence at higher altitudes	2.5	2.2
Index (weighted average of all notes)	3.4	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 guidelines

DUS test conducted at Scharnhorst, BSA (DEU), 1999-2000

UPOV No	Characteristics	State of expression	Note
1	Ploidy	tetraploid	4
5	Leaf: color in the year of sowing	dark green	7
8	Time of inflorescence emergence (after vernalization)	very early	1
10	Flag leaf: length	medium to long	6
11	Flag leaf: width	medium to wide	6
12	Plant: length of longest stem including inflorescence	medium to long	6

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