



ARTESIA

Perennial Ryegrass (4n)

Lolium perenne L.

Things to know

The origin of the tetraploid variety Artesia, is the very early breeding material of Swiss ecotypes. Artesia is heading even 3 days earlier than the very early Arvicola. Artesia shows a clear breeding progress concerning the resistances against rust and snow mould. The variety is very highly competitive through its precocity. Artesia features a strong juvenile growth, a high yield capacity and an excellent endurance.

Descent

Base material

Selection in tetraploid breeding material of ART Reckenholz, emerged from colchicine treatment.

MO seed

Row trial 2000 (LP0097) with seed harvest on 7 clone progenies from a polycross with 7 clones.

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 2006

Further registered in the following countries

DEU,AUT

Agronomic characteristics

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

	ARTESIA	Mean
Yield	4.3	4.2
General impression	2.5	2.6
Juvenile growth	1.9	2.1
Competing ability	4.5	4.3
Persistence	2.6	2.9
Resistance to winter conditions	3.3	3.3
Resistance to leafspots an rust	3.7	3.6
Digestibility of the organic matter	3.3	3.3
Persistence at higher altitudes	1.9	2.2
Index (weighted average of all notes)	3.1	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 Scharmhorst, BSA (DEU), 2004-2005

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