



SALMO

Perennial Ryegrass (4n)

Lolium perenne L.

Things to know

Alike the varieties Algira and Arcturus, Salmo originates from a colchicine treatment to transform diploid elite breeding material tracing back to Swiss ecotypes into the tetraploid state. Salmo shows 2 days earlier heading than the variety Lacerta. Its main advantages are its high yield potential, a fast regrowth after cutting and a good resistance level against several diseases. In the official trials, its digestibility was found to be on the same level as for Arvicola and Artesia, but somewhat lower than for Lacerta. In our own trials, its digestibility was on the same level as for the top variety Salamandra.

Descent

Base material

Selection in early Agroscope breeding material originating from a colchicine treatment of Swiss ecotypes

M0 seed

Row trial 2004 (LP0495) with seed harvest on 7 half-sib families of 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 2013

Further registered in the following countries

DEU,LUX,FRA

Agronomic characteristics

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

	SALMO	Mean
Yield	2.9	4.2
General impression	2.7	2.6
Juvenile growth	2.4	2.1
Competing ability	4.4	4.3
Persistence	3.2	2.9
Resistance to winter conditions	3.0	3.3
Resistance to leafspots and rust	3.7	3.6
Digestibility of the organic matter	4.7	3.3
Persistence at higher altitudes	2.2	2.2
Index (weighted average of all notes)	3.2	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), 2010-2012

UPOV No	Characteristics	State of expression	Note
1	Ploidy	tetraploid	4
5	Leaf: intensity of green color	medium	5
7	Plant: vegetative growth habit (after vernalization)	semi-erect to intermediate	4
10	Plant: tendency to form inflorescences (without vernalization)	very weak to weak	2
11	Time of inflorescence emergence (after vernalization)	early	3
14	Flag leaf: length	medium to long	6
15	Flag leaf: width	broad	7