

Perseus

Festulolium braunii



Perseus is a dynamic, high yielding festulolium (meadow fescue x Italian ryegrass). It has shown very high forage yield, in the seeding year, it shows the same yield potential of Italian ryegrass. However, unlike Italian ryegrass, Perseus maintains dominating yield production for the next 2-3 harvest years.

Persistence

The increased persistence of Perseus comes from the meadow fescue contribution to the hybrid. It has a stronger root system, increasing summer performance and drought resistance over a straight ryegrass. Winter hardiness is improved; Perseus shows the same persistence as perennial ryegrass over 3 years.

Forage Quality

Forage Quality of Perseus is high. It is better than annual ryegrass, and almost as good as perennial ryegrass as you can see below. It is later in maturity, facilitating high quality forage harvest.

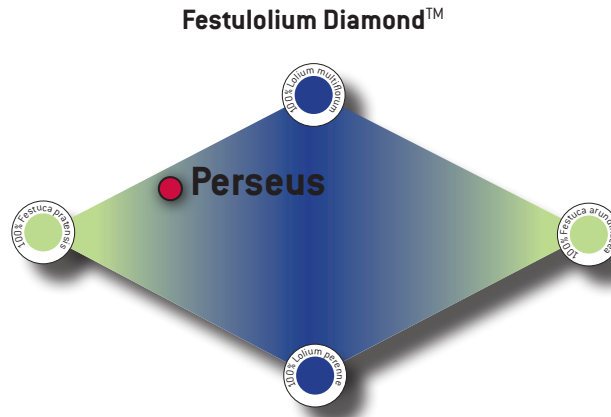
Variety	RFQ	RFV
Perseus Festulolium	123	114
Podium 2N P. Ryegrass	128	119
Caballo 4N P. Ryegrass	133	124
Fure Meadow Fescue	125	116

DLF Hladke Zivotice Research Station Fall 2012

Perseus has a leafy upright growth pattern, producing forage that is very palatable and digestible. Perseus is an excellent replacement or compliment for ryegrass, and or meadow fescue. Consider Perseus when you need a fast-starting high forage-quality grass for silage or pasture. It can be mixed with legumes or used as a pure stand. It can be used as a nurse crop when establishing alfalfa; or interseeded into weak winter damaged stands.

Adaption

Festuloliums are best adapted to soils with high fertility and moisture. Perseus is very responsive to nitrogen.



Ryegrass Type
(Italian)

PLOIDY
Tetraploid (4N)

GROWTH HABIT
Perennial Bunch

ESTAB. RATE
7-10 days

NITROGEN REQ.
Very High >120 lbs/ac

ANEROBIC SOIL TOL.
Good

pH RANGE
5-8

MINIMUM RAINFALL
>30 inches

DRY MATTER YIELD
3-4 tons

REGROWTH
Excellent

PRIMARY UTILIZATION
Grazing & Silage

VEG REPRO TIL RATE
High

ENDOPHYTE
No

SEEDING RATE
25-35 lbs/ac pure stand
3-20 lbs/ac mixed

Perseus

Festulium braunii



University of Kentucky Yield 1 (tons/acre)

Lexington location sown 9/7/2010

* Not significantly different from highest yield

Ryegrass type festulolium	10/14/2010 Seedling vigor	2011 Total	2012 7-May	21-Jun	22-Oct	Total	2 year Total
Perseus	4	5.46	1.37	0.54	0.24	2.51	7.61*
Barfest	2.4	4.02	1.63	0.36	0.33	2.33	6.35
Spring Green	2.8	4.57	1.19	0.32	0.18	1.69	6.26
Gain	2.8	4.4	0.79	0.33	0.07	1.18	5.58
Duo	4.6	3.8	1.31	0.36	0.21	1.88	5.48
Agula	2.1	4.18	0.76	0.27	0.1	1.12	5.30
Sweet Tart	3.4	3.73	0.86	0.27	0.32	1.45	5.19
Bonus	2.3	3.69	0.78	0.38	0.08	1.24	5.07
Mean	2.4	4.12	1.17	0.36	0.22	1.75	5.86
CV%	22.7	9.29	25.1	21.9	33.99	20.08	9.36
LSD, 0.05	0.8	0.56	0.42	0.11	0.11	0.5	0.8

University of Kentucky Yield 2 (tons/acre)

Lexington location sown 9/7/2010

* Not significantly different from highest yield

Ryegrass type festulolium	% stand 10/19/2012	4/10-30/12	5/24/2012	10/22/2012	2012 Total
Perseus	100	2.2	0.9	0.66	3.75*
Spring Green	100	2.07	0.72	0.57	3.36*
Duo	98	1.78	0.85	0.27	2.9
Barfest	100	1.66	0.65	0.54	2.85
Gain	56	1.7	0.74	0.16	2.6
Bonus	10	1.76	0.7	0.01	2.48
Mean	85	1.59	0.68	0.45	2.72
CV%	6	17.5	12.33	18.73	11.73
LSD, 0.05	8	0.4	0.12	0.12	0.45

Due to earlier maturity Duo, Gain, and Bonus harvested 4/10 rest harvested 4/30

University of Wisconsin Yield (tons/acre)

Arlington location sown 2011

2011 Harvested yields (tons/acre)		7/4/2011	7/22/2011	9/20/2011	Total
Festulolium	Perseus	1.75	1.43	0.58	3.64
Hybrid Ryegrass	PPG-LHT 103*	1.62	1.26	0.39	3.34
Festulolium	Spring Green	1.66	1.17	0.36	3.27
Perennial Ryegrass	Calibra	1.14	0.86	0.41	2.40
Tall Fescue	KY 31 E-	0.6	0.83	0.54	2.28
	Mean	1.22	1.16	0.58	2.98
	CV%				10.5
	LSD 5%				0.6