

QUARTERMASTER

TETRAPLOID PERENNIAL RYEGRASS

QUARTERMASTER is a highly palatable medium/late maturing tetraploid perennial ryegrass that exhibits the high forage production of a hybrid yet retains the persistence of a true perennial ryegrass. Winterhardness of QUARTERMASTER is sufficient to give 3 years of persistence in northern climates and 4 or more years in moderate climates.

GRAZING

- Excellent palatability
- Quick regrowth
- Good rust resistance
- High digestibility allows for higher intakes

HARVESTED FORAGE

- Superior yields
- Mixes well with legumes
- Excellent uptake of nutrients
- Better persistence than hybrid ryegrasses

QUARTERMASTER is a certified tetraploid perennial ryegrass approved through AOSCA National Grass Variety Review Board and accepted in the Oregon State University certification program.

BACKGROUND

QUARTERMASTER tetraploid perennial ryegrass is the result from crossing elite lines of perennial and hybrid ryegrass. The breeding objective was to capture the increased yields of a hybrid, yet retain the persistence expected from a true perennial. A secondary objective was to screen the progeny for medium/late heading. By doing so, QUARTERMASTER is better suited to match the maturity of later maturing grasses and Alfalfa varieties. The winterhardiness of QUARTERMASTER is sufficient to usually give 3 years of persistence in the extreme Northern climates and 4 or more years in more moderate climates. QUARTERMASTER has been tested at universities in Michigan, Kentucky, Pennsylvania and New York.

APPLICATION

QUARTERMASTER is suited to both grazing and mechanical harvesting. But where the variety really fits is on operations where high production and quality are required, like high producing dairies or grass fed beef operations. Digestible fiber is becoming a focal point in ruminant nutrition. The amount of digestible fiber produced per acre is a better measure of how livestock will perform on a given forage than dry matter yields alone. QUARTERMASTER is exceptional in this regard. While we do not recommend QUARTERMASTER for dry hay, it will make tremendous silage. QUARTERMASTER's medium/late heading date coincides well with alfalfa, late orchardgrass, late tall fescue and medium maturing timothy.

SEEDING RATES

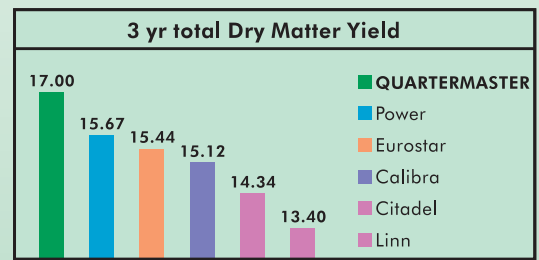
Pure Stand: 30 - 40 lbs/acre

QUARTERMASTER can be mixed with alfalfa and is an excellent component in mixtures with tall fescue, orchardgrass, timothy and clovers.

Percentages and seeding rates vary depending on application and geographical region. Follow your local extension agent or seed dealer's recommended rate.



Cornell University 2008 - 2010



Planting Date: 2007

2009 Cornell Perennial Forage Grass Yield Summary

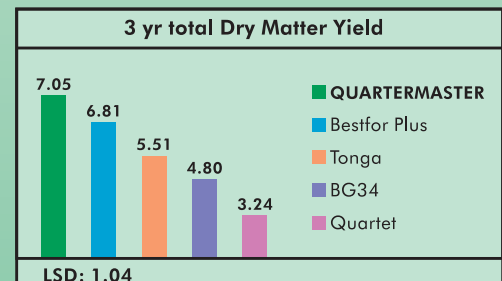
Variety	Dry Matter Yield	%NDF*	%NDFD*	Tons NDFD/ac
QUARTERMASTER	5.27	44%	94%	2.18
Power	5.18	41%	95%	2.02
Calibra	4.97	44%	90%	1.97
Eurostar	5.11	41%	90%	1.89
Citadel	5.05	39%	94%	1.85
Linn	4.57	43%	94%	1.85

Planting Date: 2007

*NDF and NDFD of first harvest were measured and used to represent entire year

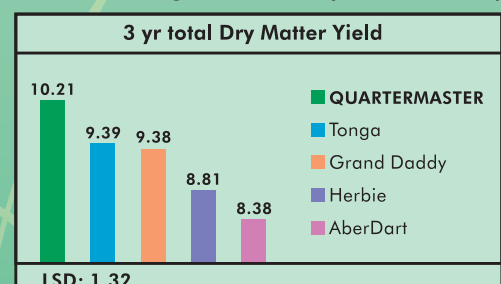
University of Kentucky

2008 Annual & Perennial Ryegrass Report



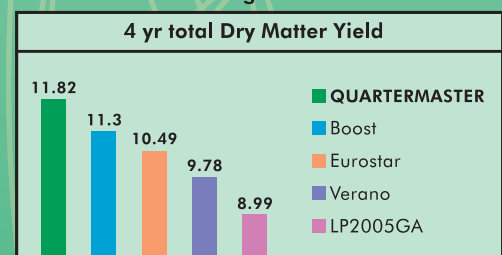
Penn State University

Cool Season Forage Grass Variety Trials 2005 Report



Planting Date: April 2002

Michigan State University Forage Trials



Planting Date: 2006