

Maximize Forage Production WITH GRASSHANCER®



THE ENHANCEMENT:

When there is still a partial stand to recover, whether it is an older stand or younger stand it, will pay off to "Grasshancer"®. This rejuvenation will boost production with high quality grasses. DLF Pickseed has several Yield Enhancing Grass mixtures to accomplish this.

Grasshancer® 100

A mixture of diploid and tetraploid annual ryegrass, for a quick spring forage crop.

Grasshancer® 200

A mixture of diploid and tetraploid Italian ryegrass. This mix is recommended as a spring planting for boosting the production for this season. This gives the option for two production years before needing to rotate.

Grasshancer® 200FL

Another option for spring planting, improving the production for this year. Grasshancer®200FL combines the high production of Italian ryegrass with the added forage quality and persistence of Festulolium. This gives the option for two production years before needing to rotate.

Intermediate Ryegrass

Intermediate ryegrass is more persistent than Italian ryegrass. It is suitable for a spring plant and gives a production boost in the first and second year.

Grasshancer® 300FL

A mixture of Festulolium varieties that have the potential to persist for 3-4 years. It combines the establishment and production of Italian ryegrass with the fiber digestibility of Meadow Fescue. Ideal for maintaining pastures and hay fields with high dry matter production and high feed quality.

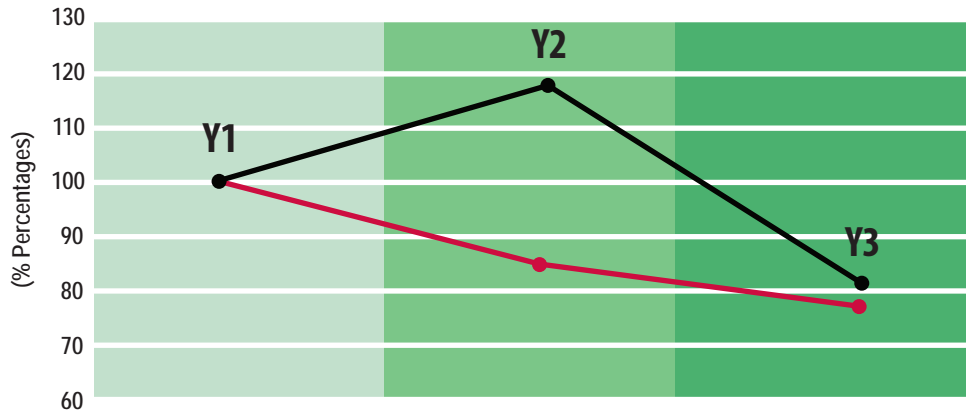
Grasshancer® 400

An option for short and long term production, built with late maturing DLF tetraploid perennial ryegrasses. In temperate climates, a 4-6 year life span can be expected. Although not as aggressive in establishment as Italian or intermediate ryegrasses, Grasshancer® 400 is suited for overseeding into existing perennial stands or seeding new pastures. Due to the late maturity of perennial ryegrass in general, Grasshancer® 400 is not recommended for interseeding alfalfa.

THE OPPORTUNITY:

Forage production has been under heavy pressure in the past two years, with few chances to mitigate. This year's early onset of spring provides opportunity! Even under the best of conditions and management, Forage production fields decline in production over time. Think of it as an athlete: they will set world records when they are in their late teens or early twenties, not in their forties. Your grass or alfalfa is no different. Top production is in the first two years, after that it slowly declines.

DRY MATTER YIELD DECLINE OVER TIME



— Relative DM yield - all grass species MI State, Penn State, WI State (2013-2017 trial data)
— Relative DM yield - alfalfa trial average MI, WI, NE (2011-2013)

Yield Enhancing Grasses

Variety	Seeding Year		Year 2	Year 3	Milk / Ton Potential
	Spring	Fall			
Grasshancer 100	Strong	Lower	Low	None	**
Grasshancer 200/200FL	Strong	Lower	Low	None	***
Intermediate ryegrass	Strong	Lower	Low	None	***
Grasshancer 300FL	Strong	Lower	Low	None	****
Grasshancer 400	Strong	Lower	Low	None	***

Growth & Production Key

Strong	Lower	Low	None
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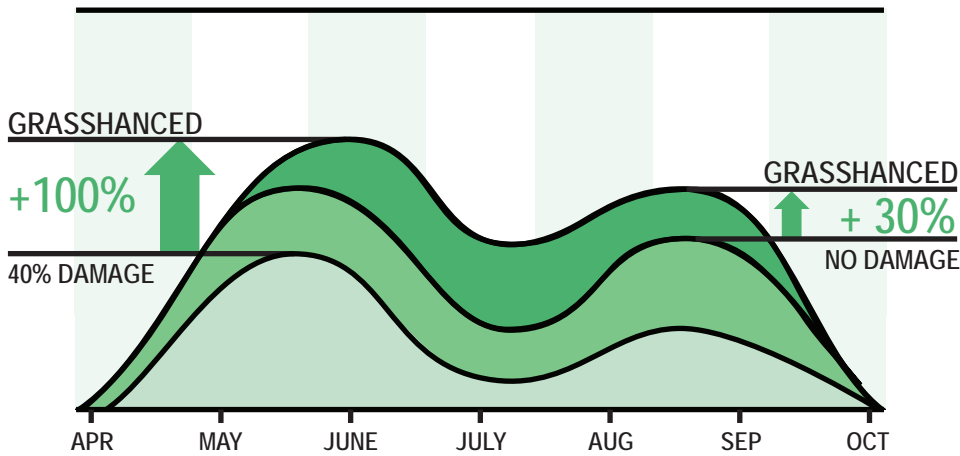
Maximize Forage Production WITH GRASSHANCER®



Grasshance® can boost production as much as double compared to a field with 40% stand loss from winter damage. But even without damage, Grasshance® can boost DM by 30% more high quality forage, the cheapest feed you will ever have.



ANNUAL RELATIVE GROWTH CURVE



Steps for Success:

- Plant as soon as the field is ready and holds equipment. Seed no deeper than 1/2".
- Apply lower levels of fertility (or none at all) before establishment so existing growth doesn't overwhelm new seedlings. After first cutting, increase applications relative to overall forage population (30-50# N).