



**Pasture
Genetics**

Science based seed®

NEW VARIETIES FACT SHEET 2016

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- DLF RYEGRASSES FOR TESTING -

THIS YEAR WE WILL BE EXTENDING OUR TESTING WITH TWO NEW ITALIAN RYEGRASSES AND ONE DIPLOID PERENNIAL RYEGRASS FROM DLF.

Jackpot Diploid Italian, Mona Tetraploid Italian and 24Seven^{EDGE} Diploid Perennial Ryegrasses will be commercially tested in 2016. We anticipate the new full commercial release of Jackpot and 24Seven^{EDGE} to occur in 2017.

Mona Tetraploid will be assessed over the 2016 and 2017 seasons.



- JACKPOT DIPLOID ITALIAN RYEGRASS -

JACKPOT IS A NEW DIPLOID ITALIAN RYEGRASS BRED BY THE DLF AUSTRALASIAN BREEDING PROGRAM.

It was bred to replace the long standing favourite Icon Ryegrass. The breeding and testing program aimed to develop a new fine-leaved cultivar with improved production in all seasons, and the ability to produce for two or more years in favourable climates. Testing has confirmed that Jackpot has successfully out yielded Icon by an outstanding 26% and Knight by 9%. Jackpot's late heading date prolongs feed quality in spring giving a greater opportunity to increase overall total production. Excellent option for farmers looking for top end production, quality and manageability. Jackpot is set to make big inroads into the Australian Italian Ryegrass market setting new levels of livestock production driving dairy, sheep and beef farmer satisfaction.

Late flowering +22 days which gives excellent long season production

Replacement for Icon Ryegrass in 2017

Fine leaved cultivar with improved growth in all seasons

Increased yield advantage over Icon Ryegrass by 26% and 9% over Knight

Seeding rate = 10-15kg/Ha Dryland

Seeding rate = 20-25g/Ha High Rainfall/Irrigation



- MONA TETRAPLOID ITALIAN RYEGRASS -

MONA IS A NEW LATE FLOWERING TETRAPLOID ITALIAN RYEGRASS BRED BY THE DLF AUSTRALASIAN BREEDING PROGRAM.

The objectives in the breeding program and testing were to develop a cultivar with improved production in all seasons, and the ability to produce for two or more years in favourable climates. The intention is that Mona will replace the proven performer Jeanne. Testing has confirmed that Mona has successfully out yielded Jeanne by an outstanding 34%. An added benefit of Mona is its very late

heading date, this extends the period in spring when farmers can graze or cut very leafy and high quality forage by up to one month. In many irrigated or high rainfall zones, the ability to carry the production through late in the season will be of great advantage when high quality silage and hay supplies can be stock piled. Mona's winter and early spring growth is not compromised by the late heading, which usually occurs in later flowering Italian Ryegrasses. Mona enables farmers to maintain very high levels of livestock performance late into the spring, particularly enabling dairy cows to maintain high levels of milk production into that late spring period.

Very late flowering +28 days which gives excellent long season production

Replacement for Jeanne Ryegrass in 2018

Increased yield advantage over Jeanne Ryegrass by 34%

Winter and early spring growth is not compromised by the late heading which usually occurs in Italian Ryegrasses

Lateness allows for larger bulkier silage and hay cuts to build on farm feed requirements

Ability to produce for two or more years in favourable conditions

Seeding rate = 10-15kg/Ha Dryland

Seeding rate = 25-30kg/Ha High Rainfall/ Irrigation



- ANSA DIPLOID PERENNIAL RYEGRASS -

ANSA IS ONE OF THE FIRST DIPLOID PERENNIAL RYEGRASSES TO BE RELEASED FROM THE DLF AUSTRALASIAN BREEDING PROGRAM.

Diploid perennial ryegrasses with AR1 endophyte are widely used pasture grasses because of the combination of good grazing and insect tolerance, which are important for pasture persistence. Ansa is a high-performance perennial with high levels of dry matter production. Its real strength is in winter, yielding better than 10 of the 11 cultivars it was tested against (Meridian was equal to Ansa) (Yaldhurst 2008). This makes Ansa an ideal choice for farms wanting to maximise pasture supplies in winter and early spring. Ansa performs in winter when farmers are really looking for pasture dry matter growth to maintain livestock performance. Ansa is bred to persist and perform in very intensive livestock production systems due to its very high tiller density, and with its superior cool season growth, it also establishes quickly when autumn sown.

+ 14 day maturity ideal to meet and manage feed requirements on both dryland and irrigated farms

Excellent seedling vigour for quick pasture establishment

High winter performance that is unique to only a few perennial ryegrasses

Ability to target feed production in winter when high quality forage options are limited

Ideal ryegrass to use in high performance based systems

Very densely tillered to offer excellent grazing characteristics

AR1 endophyte package

Seeding rate = 10-15kg/Ha Dryland

Seeding rate = 25-30kg/Ha High Rainfall/Irrigation



- 24SEVEN^{EDGE} DIPLOID PERENNIAL RYEGRASS -

24SEVEN IS A NEW RELEASE FROM THE DLF AUSTRALASIAN BREEDING PROGRAMME, AND IS SUITED TO THE HIGH RAINFALL/IRRIGATION REGIONS OF AUSTRALIA.

24Seven has been developed to contain the novel endophyte Edge, which provides this grass with protection from black beetle, argentine stem weevil (ASW), pasture mealy bug and root aphid, without affecting animal production or health.

The production of 24Seven has been tested in several trials (4 completed, 10 current) across New Zealand, in which 24Seven has never been beaten by other commercial cultivars. It also has unusually strong cool-

season growth for such a late heading date. 24Seven therefore breaks the old dilemma created from late heading ryegrasses having less early-spring growth than mid-heading cultivars. 24Seven also produces stems and flower heads 24 days later than standard date cultivars, so it extends the period of high energy and protein pasture in late spring by almost one month which equates to substantial increases in animal production over an extended period, putting more profit into the farming enterprise.

+ 24 day maturity

High annual production

Excellent winter and spring growth

High tiller density for persistence

Increased insect protection

No ryegrass staggers or loss of animal performance

New Edge Endophyte package

Seeding rate = 10-15kg/Ha Dryland

Seeding rate = 25-30kg/Ha High Rainfall/Irrigation



- TIMOK VETCH - COMMERCIAL 2016 -

TIMOK VETCH WILL BE RELEASED IN 2016.

We currently are sold out of this new release product. Current orders will be subject to final harvest results. Orders taken now for 2017. New release from the SARDI Vetch Breeding program.

Matures between Rasina and Morava (from seeding to full flowering 100 - 110 days)

High yielding and rust resistant but is only moderately resistant to ascochyta blight

Very good vigor at flowering

Timok is a very good grain producer across all regions and is the ideal variety in areas >380mm rainfall/yr

Timok's DM is similar to Morava in high rainfall (> 400mm), but 19% higher than Morava in low to medium rainfall regions (330 - 380mm)

Seeding rate = 30 - 45 kg/Ha Dryland

Seeding rate = 10 - 25 kg/Ha Pasture

Seeding rate = 15 - 35 kg/Ha Cereal Mixes

- XLR8 TREATED SEED -

PASTURE GENETICS ARE INSTALLING A NEW PURPOSE BUILT SEED TREATMENT PLANT AT OUR MAIN DISTRIBUTION FACILITY AT WINGFIELD SA. THIS WILL ENABLE US TO CUSTOM TREAT ANY OF YOUR REQUESTED GRASSES OR LEGUMES EITHER AS STRAIGHTS OR AS A PASTURE BLEND.

All Goldstrike XLR8 products now come standard with Poncho Plus insecticide including our proprietary lucernes:

ML99, L92, Q75, L71, GTL60, L56 & Q31 (L91 and L70 available on request)

The Goldstrike XLR8 range also comes standard on:

Ranger Plantain, Balance Chicory, Subzero and Bouncer Brassica and Sub Tropical Grasses

The application of Goldstrike XLR8 with Poncho Plus to straight seed lines or pasture blends is available @ \$1.25/kg ex GST.

PONCHO® PLUS COMPARISON CHART

	SEED TREATMENT				BARE SEED + FOLIAR SPRAY		
	Poncho Plus Broadleaf Pasture	Poncho Plus Grass Pasture	Gaucho®	Chlorpyrifos	Ground Spray Dimetheoate	SP Foliar	
REGISTERED CLAIMS BENEFIT							
Redlegged Earth Mite	✓	✓	✓	✓	✓	✓	
Lucerne Flea	✓	✓	✗	✓	✓	✗	
Blue Oat Mite	✓	✓	✓	✓	✓	✓	
Cutworm	✓	✓	✗	✓	✗	✗	
Yellowheaded Pasture Cockchafer	✗	✓	✗	✗	✗	✗	
African Black Beetle	✗	✓	✗	✗	✗	✗	
May offer Stress Shield™ benefits	✓	✓	✓	✗	✗	✗	
Up to 4 weeks systemic protection for emerging seedlings	✓	✓	✓	✗	✗	✗	
Protection against some soil pests	✓	✓	✗	✓	✗	✗	
Low impact on beneficial species	✓	✓	✓	✗	✗	✗	
Targeted chemical placement	✓	✓	✓	✗	✗	✗	
BENEFITS							