

**We're here to  
help you grow**

# Seed Guide 2025

**For technical advice,  
please contact your  
local Territory Manager**

⊕ Detailed contact information is  
provided on the inside back cover

**Anything else?  
Get in touch**

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**Plant with  
confidence**



**AlfaGen**  
SEEDS

# Why choose AlfaGen Seeds?

At AlfaGen Seeds, our roots run deep into the land we love. No jargon, just real talk about how we can make a real difference. We understand the soil under your fingernails, the early morning starts, and the sheer determination it takes to make things grow. With decades of hands-on experience and local know-how, we're here to share what we've learned. Australian grown, our knowledge comes straight from the field, farm-tested for Aussie conditions.

Our aim is simple – to support Aussie farmers with the best seeds, the right information, and a helping hand. We'll provide you with not only top-notch seeds but also the knowledge and tools to help you grow.

**It all starts with a seed.**

# It all starts with a Seed

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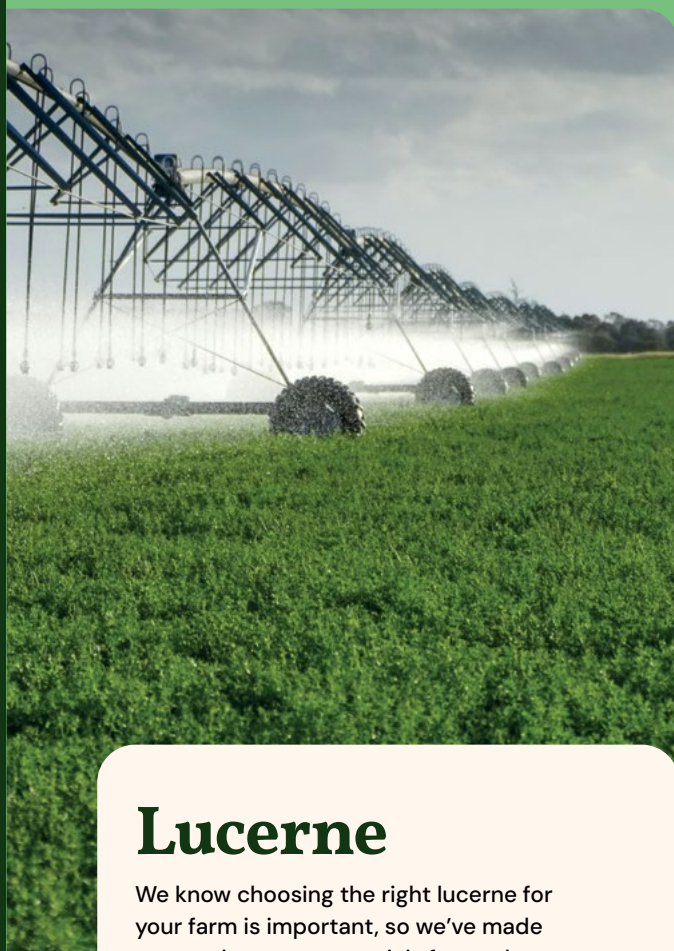
## Establishment Guarantee

At AlfaGen Seeds, we stand behind the quality of our proprietary seed and always aim for the best outcome for our farmers.

Our Establishment Guarantee is straightforward: if your seed doesn't establish successfully within 30 days, we'll replace it at half the original price. It's a commitment that helps you save on replanting costs and plant with confidence, knowing we're here to support you.

**Plant with confidence, backed by the support of AlfaGen Seeds.**

*Terms and conditions apply*



## Lucerne

We know choosing the right lucerne for your farm is important, so we've made our product names straightforward:

- ⊕ The first number shows the winter activity level (from 1 to 10). A higher number means the plant stays more active during winter
- ⊕ The second number identifies the unique breeding program code within that activity level

Winter activity level

Breeding code

**L97**


# L97

## LUCERNE

: *Medicago sativa*



L97 lucerne sets a new standard in the highly winter active category, delivering excellent forage yields without compromising quality. Bred for saline conditions, it extends the range of soils where lucerne can thrive. With outstanding winter growth, L97 ensures consistent, high-quality feed year round, for grazing or cutting.

Dormancy	Highly winter active	9
Grazing tolerance	Low  High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

### ⊕ Increased salt tolerance – a leading variety in trials evaluating cultivars for salt tolerance

Allowing for faster, more reliable establishment in adverse conditions

Suited to a range of soil types, producing exceptional forage in both saline and non-saline conditions

### ⊕ High quality, dual purpose

Increased leaf-to-stem ratio, producing high quality forage, suitable for both grazing & hay production

### ⊕ Bred in Australia, specifically for Australian conditions

Specifically developed to thrive in Australia's unique climates and soil types, ensuring better performance and resilience

Promotes sustainability by offering a seed variety that is aligned with the needs of Australian farmers

### ⊕ Highly winter active

Producing high forage yields all year round

Extended cutting and grazing opportunities in autumn and winter


# L91®

## LUCERNE

: *Medicago sativa*



L91® lucerne is a top choice among highly winter active varieties in the Australian market, ideal for forage production in short cropping rotations. With a good pest and disease resistance package and superior yields compared to Sequel, L91® offers a more profitable solution for farmers.

Dormancy	Highly winter active	9
Grazing tolerance	Low  High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

### ⊕ Economical choice

Offers great value, delivering strong quality and yield at an affordable price point

### ⊕ Rapid establishment in cooler months

Increased planting window

### ⊕ Highly winter active

Maximising year-round production



AlfaGen Seeds trial site




# Q75®

**LUCERNE**  
: *Medicago sativa*



Q75® lucerne provides year-round production with exceptional quality in hay, silage and grazing systems. Demonstrated superior quality characteristics including large leaf size, greenness and leaf retention. Q75® has a very good pest and disease rating.

Dormancy	Winter active	7
Grazing tolerance	Low  High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

## ⊕ Excellent leaf retention with large leaf size

For premium-quality hay and silage production  
Provides extra greenness to the bale, increasing hay and silage quality  
Provides improved forage quality

## ⊕ Winter active

Provides year-round production

## ⊕ High pest and disease ratings


Greater production under broad environmental pressures

# L71

**LUCERNE**  
: *Medicago sativa*



L71 lucerne was developed in partnership with NSW DPI. The breeding strategies were to target strong grazing tolerance, while having the ability to withstand fungal diseases. L71 is a high-yielding, high-quality, winter active lucerne with strong persistence under heavy grazing and anthracnose pressure.

Dormancy	Winter active	7
Grazing tolerance	Low  High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

## ⊕ Excellent grazing tolerance

Good stand longevity allowing for extended productivity and reduced need for replanting

## ⊕ Latest lucerne to come out of the NSW DPI breeding program

Bred for Australian conditions ensuring reliable performance and better adaptability to the unique challenges of Australian farming

## ⊕ Resistance to three strains of anthracnose

Better production and resilience in warm, higher humidity climates, resulting in better leaf retention




# L70

**LUCERNE**  
: *Medicago sativa*



L70 lucerne has become a leading winter active lucerne variety in the Australian market and an excellent fit for both grazing and forage production. L70 has a good pest and disease package with superior yields over Aurora, making it a more profitable option.

Dormancy	Winter active	7
Grazing tolerance	Low  High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

## ⊕ Improved genetics over Aurora

Greater leaf-to-stem ratio, boosting overall yield

## ⊕ Cost-effective option

An affordable choice without compromising on quality and yield

## ⊕ Good pest and disease package

Increased production and performance compared with Aurora




# Q63

**LUCERNE**  
: *Medicago sativa*



Q63 is a high-yielding, premium-quality lucerne variety. With moderate winter activity, it offers strong production even outside the peak season. It recovers quickly from grazing and fodder use, thanks to its high leaf-to-stem ratio that enhances forage quality. Q63 also boasts excellent resistance to pests and diseases.

Dormancy	Semi-winter-dormant	6
Grazing tolerance	Low  High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

## ⊕ The benchmark for high yielding, semi-winter-dormant lucerne

Consistently producing up to 15% more dry matter than other standard varieties on the market

## ⊕ Exceptional seedling vigour

Reduced time to first cut maximising profitability of lucerne stand from an early stage

Increased flexibility in early herbicide application

## ⊕ Moderate winter activity

Higher growth rates coming out of the winter period than winter dormant varieties

## ⊕ Excellent leaf-to-stem ratio with a large leaf size

High-quality hay and silage production

“

*It looks great and has established very well, and it is currently producing a very high-quality bale with excellent yields.*

”

**Wade Alexander**

Mundubbera, QLD

# GTL60®

LUCERNE  
: *Medicago sativa*



GTL60® lucerne sets the standard for grazing tolerant varieties. Its outstanding tolerance allows for more frequent grazing rotations while maintaining excellent persistence. GTL60® is a high-yielding, high-quality, semi-winter-active lucerne, ideal for boosting productivity.

Dormancy	Semi-winter-dormant	6
Grazing tolerance	Low ————— X High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

## ⊕ Unparalleled for grazing tolerance – withstands and recovers from continuous heavy grazing

Improved stand longevity ensures healthier pastures and supports sustainable grazing systems, allowing for extended productivity and reduced need for replanting

## ⊕ A true-to-type grazing tolerant variety, bred specifically to handle Australian grazing systems

Provides reliable performance and resilience in varied conditions, ensuring consistent pasture productivity under grazing

## ⊕ High forage quality

Shorter internodal trifoliate leaf spacing increases leaf production, resulting in more palatable forage. This encourages higher intake and improves livestock nutrition.

## ⊕ Dual purpose

Highly productive and suited to both grazing and fodder production, allowing management flexibility across a range of enterprises

# L56®

LUCERNE  
: *Medicago sativa*



L56® is the ultimate dual-purpose lucerne variety for Australian conditions suiting a wide range of soil types and enterprises. With its low and broad crown and excellent pest and disease rating, L56® can produce high-quality hay or a persistent grazing paddock, depending on the grower's needs.

Dormancy	Semi-winter-dormant	5
Grazing tolerance	Low ————— X High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

## ⊕ Exceptional seedling vigour

Reduced time to first cut, maximising profitability of lucerne stand from an early stage  
Increased flexibility in early herbicide application

## ⊕ Versatile all-rounder

Suitable for a wide range of enterprise systems including livestock grazing and fodder production on both dryland and irrigation, making it a versatile choice for farmers

Allows for flexibility in grazing management  
Can withstand frequent or intense grazing, extending the life of the pasture

## ⊕ Strong pest and disease rating

Forms the basis of a healthier plant stand that provides increased persistence across a range of environments

## ⊕ Ability to retain leaf under stressful conditions


Increases the production of fodder as well as the plant's ability to recover from either a defoliation event or prolonged periods of dry spells

# Q31®

LUCERNE  
: *Medicago sativa*



Q31® lucerne sets the benchmark for hay quality in the Australian market. It is a winter dormant variety with excellent leaf retention and large leaf size. Q31® lucerne is a high-quality option with flexible cutting times. Its increased tillering ability and fine stems make it a perfect option in premium-grade hay, chaff, and silage systems.

Dormancy	Winter dormant	3
Grazing tolerance	Low  High	
Sowing rate		
Dryland	4-10kg/ha	
High rainfall/irrigation	18-25kg/ha	
Seed treatment	Goldstrike XLR8®	

## ⊕ High leaf-to-stem ratio

For premium quality hay and silage production

## ⊕ Winter dormant

Increased flexibility in cutting times

## ⊕ Low, broad crown

Improved tiller production, delivering finer stems and higher quality hay/chaff

## ⊕ Strong summer production

Larger and less frequent hay cuts through a critical hay production period, decreasing mechanical traffic and reducing harvest costs



## Lucerne born and bred in Australian conditions

By basing our global lucerne breeding program right here in Australia, we ensure a real local focus for the products we develop, and innovation for the right reasons—your farm's success.

We use this homegrown advantage to develop new lucerne varieties specifically adapted to Australian conditions. With a complete dormancy range, we offer a product for every unique farming situation, ensuring you can optimise yield and performance for your environment.

Tip

For more in-depth analysis on our lucerne products, download the AlfaGen Seeds Lucerne Advisor.





# Dormant & semi-winter-dormant lucerne

Dormancy characteristics	
Growth	95% summer, 5% winter
Cutting schedule	38-42 days
Number of cuts	4-5 per season
Crown type	Broad with crown below ground
Utilisation	Specialist (hay/silage/chaff) Long-term hay or pasture mix High rainfall or irrigation
Stand life	7+ years with good management



Lucerne plant characteristic of dormant/ semi-winter-dormant varieties, demonstrating their subterranean crown

**Recommended varieties**  
GTL60®, Q63®, L56®, Q31

# Winter active lucerne

Dormancy characteristics	
Growth	90% summer, 10% winter
Cutting schedule	33-35 days
Number of cuts	5-7 per season
Crown type	Broader & lower crown
Utilisation	Dual purpose (grazing/hay) Longer-term pasture or hay Dryland and irrigation
Stand life	5-7 years with good management



Lucerne plant characteristic of winter active varieties, expressing low broad crown

**Recommended varieties**  
L70, L71, Q75®

# Highly winter active lucerne

Dormancy characteristics	
Growth	80% summer, 20% winter
Cutting schedule	25-28 days
Number of cuts	7-10 per season
Crown type	Narrow & higher crown
Utilisation	Dual purpose (grazing/hay) Short-term cropping rotation Dryland and irrigation
Stand life	3-4 years with good management



Lucerne plant characteristic of highly winter active varieties, showing the narrower and slightly raised crowns

**Recommended varieties**  
L97, L91®



## Our seeds are tested to thrive in Aussie conditions

**Our product innovation has one purpose: to benefit you.**

We don't invest in product development just for the sake of it; we focus on what really matters. Whether it's keeping up with agricultural trends or breeding seeds for better disease resistance, our development program is targeted and practical, driven by the real needs of real farmers on real farms.

Our knowledge comes from being on the ground – we're farmers too, living and working on the same land. We want to share our years of local knowledge and experience with you.

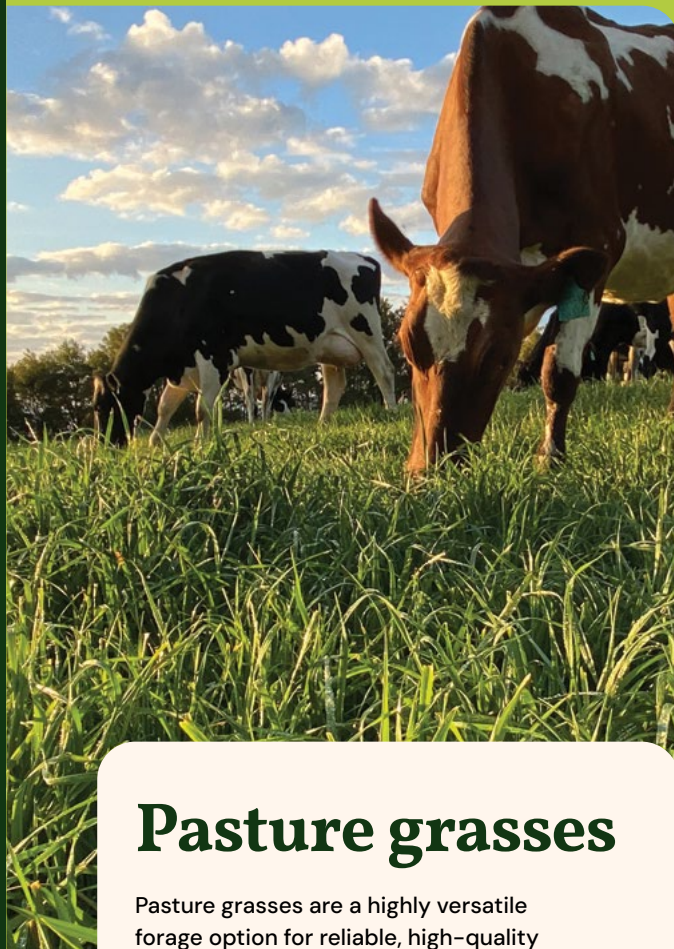
**Tip**

For more in-depth analysis on our lucerne products, refer to the AlfaGen Seeds Lucerne Advisor.



**Tip**

For more in-depth analysis on our ryegrass products, refer to the AlfaGen Seeds Ryegrass Guide.



## Pasture grasses

Pasture grasses are a highly versatile forage option for reliable, high-quality feed production in Australian farming systems. With options suited to diverse environments, there are a range of establishment options, and levels of persistence and productivity to optimise pasture performance.

# Tetrone

**TETRAPLOID ANNUAL RYEGRASS**  
: *Lolium multiflorum*/Westerwolds



An early-maturing variety with strong vigour, suited to medium & lower rainfall environments

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Strong seedling & establishment vigour
- ⊕ High winter production
- ⊕ Good establishment in cooler soils
- ⊕ Heading date +5 days

# Koga

**TETRAPLOID ANNUAL RYEGRASS**  
: *Lolium multiflorum*/Westerwolds



Provides valuable feed in cooler periods of the year

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Rapid establishment and growth
- ⊕ High winter dry matter yields
- ⊕ Excellent option for silage/hay production
- ⊕ Heading date +10 days

# Loader

**TETRAPLOID ANNUAL RYEGRASS**  
: *Lolium multiflorum*/Westerwolds



A consistently high and profitable performer

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Quick establishment and growth
- ⊕ Excellent production
- ⊕ Extended spring growth
- ⊕ Heading date +16 days

# Kiama

**TETRAPLOID ANNUAL RYEGRASS**  
: *Lolium multiflorum*/Westerwolds



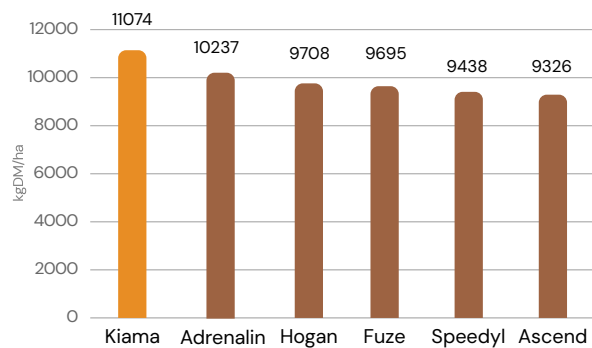
Outstanding new variety for maximising production and profitability

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

- ⊕ **Outstanding production**  
Provides large amounts of high-quality feed to maximise profitability
- ⊕ **Rapid establishment and growth**  
Quick to first grazing and fast growth after subsequent grazing
- ⊕ **Heading date +20 days**  
Maintains feed quality later into spring  
Allows for greater flexibility when cutting for hay or silage without compromising on quality
- ⊕ **High tiller density and fine leaf**  
Improves tolerance to grazing when soils are wet, and enhances recovery  
Extends production in late spring  
High feed density, enabling higher animal intake

## Ebor Annual Ryegrass Trial 2023

The 2023 annual ryegrass trial at Ebor demonstrated the excellent winter feed production Kiama can deliver



CV=15% n.s.

**Sown:** 13th April 2023  
**Harvest method:** Plots harvested and weighed; sub samples taken from each plot for DM%  
**Irrigation:** No irrigation applied

# Mazzoletti

**TETRAPLOID ITALIAN RYEGRASS**  
: *Lolium multiflorum*



Highly palatable, high-quality feed for excellent stock performance

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

- ⊕ **Highly productive medium-term ryegrass**  
Maximises feed production over winter and spring  
Good summer production in favourable conditions
- ⊕ **Late maturity**  
Maintains feed quality and production late into the season
- ⊕ **High feed value**  
Optimises stock performance and animal production
- ⊕ **High tiller density for a tetraploid Italian ryegrass**  
Improves grazing tolerance and recovery after grazing in wet conditions
- ⊕ **Heading date +17 days**
  - ▶ Not recommended for horses

# Bermagui

**DIPLOID ITALIAN RYEGRASS**  
: *Lolium multiflorum*



Excellent winter production and maintains high-quality feed into late spring

Recommended sowing rate	20–25kg/ha
Seed treatment	None/XLR8® optional

- ⊕ **High tiller density**  
Increases survivability and yield potential  
Improves recovery from grazing in wet conditions
- ⊕ **Heading date +10 day**  
For strong winter and spring production
- ⊕ **Rapid establishment into existing pastures**  
Competes well in a mixed pasture sward
  - ▶ Not recommended for horses

# Maheno

**TETRAPLOID ITALIAN RYEGRASS**  
: *Lolium multiflorum*



Rapid establishing, economical option for a wide range of enterprises

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Good production late into the season
- ⊕ Strong seedling vigour
- ⊕ Late-maturing Italian ryegrass
- ⊕ Heading date +18 days

# Sorrento

**DIPLOID ITALIAN RYEGRASS**  
: *Lolium multiflorum*



Bred for high winter and spring production

Recommended sowing rate	20–25kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Quick establishment
- ⊕ Heading date +20 days
- ⊕ Good tiller density means it recovers well from grazing/cutting



# Impact®

**DIPLOID LONG ROTATION RYEGRASS**  
: *Lolium perenne*



Proven reliability for persistence

Recommended sowing rate	20–25kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Proven persistence
- ⊕ Moderate winter production
- ⊕ Very-late heading date (+21 days)  
so maintains feed quality later in spring
- ⊕ High tiller density for strong recovery from grazing
  - ▶ Not recommended for horses

# Greenmount CM142

**TETRAPLOID HYBRID RYEGRASS**  
: *Lolium multiflorum* x *L. boucheanum*



Early vigour and feed production of an Italian  
with the persistence of a perennial

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

- ⊕ **Fast establishment vigour**  
Making it an excellent option for sowing into older pastures to boost production  
Quick to first grazing
- ⊕ **Very strong autumn and winter growth**  
Increases feed intake in cooler months when you need it most
- ⊕ **Palatable, high-quality feed**  
Delivering excellent animal performance through increased daily feed intake
- ⊕ **Heading date +18 days**  
Providing valuable production later into the season
- ⊕ **CM142 endophyte**  
Improved insect protection and reduced animal health risks over standard endophyte options
  - ▶ Not recommended for horses

# Middini CM142

**DIPLOID PERENNIAL RYEGRASS**  
: *Lolium perenne*



Bred for strong persistence in sheep, beef and dairy environments where the season finishes early

Recommended sowing rate	20–25kg/ha
Seed treatment	None/XLR8® optional

- ⊕ **Early-maturing type (+1 day)  
suited to early-finishing rainfall zones**  
Excellent winter and spring growth leading to greater liveweight production gains in cooler months
- ⊕ **High tiller density and plant persistency  
in drier environments**  
Improved grazing tolerance and recovery, leading to a more persistent pasture
- ⊕ **CM142 endophyte**  
Improved insect protection and reduced animal health risks over standard endophyte options
  - ▶ Not recommended for horses

# Moana

**DIPLOID PERENNIAL RYEGRASS**  
: *Lolium perenne*



Bred for high production & tiller density; ideal for dairy, beef & sheep in temperate, high-rainfall zones

Recommended sowing rate	20–25kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Heading date +14 days
- ⊕ Rapid regrowth and high feed production in all seasons, providing more economical homegrown feed
- ⊕ Good late winter and early spring growth
  - ▶ Not recommended for horses

# Almonta CM142

**DIPLOID PERENNIAL RYEGRASS**  
: *Lolium perenne*



Bred for high tiller density and production, ensuring very good grazing tolerance in dry or wet conditions

Recommended sowing rate	20–25kg/ha
Seed treatment	None/XLR8® optional

## ⊕ High tiller density

Delivering strong persistence and recovery from grazing

## ⊕ Late heading date (+15 days) with low aftermath heading

Maintains a vegetative state for a longer period, allowing for better pasture utilisation and high-quality, late-season feed

## ⊕ Excellent dry matter production

Resulting in good pasture growth throughout winter, spring and into summer = feed when you need it most

## ⊕ CM142 endophyte

Improved insect protection and reduced animal health risks over standard endophyte options

- ▶ Not recommended for horses

# San Remo

**DIPLOID PERENNIAL RYEGRASS**  
: *Lolium perenne*



A late-producing variety that extends the period of high-energy and protein-rich pasture into late spring

Recommended sowing rate	20–25kg/ha
Seed treatment	None/XLR8® optional

## ⊕ Very late maturing perennial ryegrass

## ⊕ High tiller density

## ⊕ Good winter production

## ⊕ Heading date +24 days

- ▶ Not recommended for horses

# Coorong CM142

**TETRAPLOID PERENNIAL RYEGRASS**  
: *Lolium perenne*



Excellent palatability & production without sacrificing tiller density or grazing tolerance

Recommended sowing rate	25–30kg/ha
Seed treatment	None/XLR8® optional

## ⊕ Late-maturing (+20 days) perennial ryegrass

Maintains feed quality late into the season

## ⊕ Tetraploid variety so provides a pasture option more readily accepted by stock

Helps to improve feed intake and stock performance leading to improved liveweight gains

## ⊕ High tiller density

Improves grazing tolerance and recovery, leading to more persistent pastures

## ⊕ Cool-season growth

Providing more feed when it's most valuable

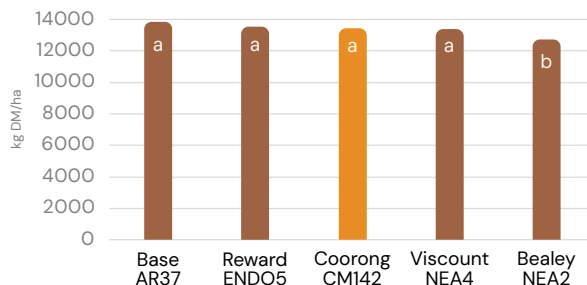
## ⊕ CM142 endophyte

Improved insect protection and reduced animal health risks over standard endophyte options

- ▶ Not recommended for horses

## 2021 Tetraploid Perennial Ryegrass Trial – Warragul, VIC

The trial at Warragul shows comparative dry matter production to the market leading competitor varieties, providing you with an alternative that you can rely on



Mean annual yield over 3 years  
Sig.= 0.001 LSD (5%) = 524 %CV = 2.7

# Sunrise

**PHALARIS**  
: *Phalaris aquatica*



Deep-rooted perennial with high-quality winter production

Recommended sowing rate	4-8kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Early-mid maturity
- ⊕ Low alkaloids
- ⊕ Increased seedling vigour for successful establishment

# Brighton

**COCKSFOOT**  
: *Dactylis glomerata*



Robust intermediate type, bred for its soft leaf, high palatability & persistence in tough Australian conditions

Recommended sowing rate	6-10kg/ha
Seed treatment	None/XLR8® optional

- ⊕ Excellent tolerance to acid soils
- ⊕ Very persistent with strong tolerance to light and infertile soils
- ⊕ Strong heat tolerance and summer production
- ⊕ Early-mid maturity

# Brutus

**TALL FESCUE**  
: *Festuca arundinacea*



Recommended sowing rate	20-25kg/ha
Seed treatment	None/XLR8® optional

# Origin

**WINTER ACTIVE TALL FESCUE**  
: *Festuca arundinacea*



Recommended sowing rate	20-25kg/ha
Seed treatment	None/XLR8® optional

## Understanding the importance of ryegrass heading dates

Ryegrass heading date is when a paddock has 50% of the plant seed heads visually emerged.

Ryegrass heading date influences pasture production in two ways.

- ⊕ Early to mid-season flowering ryegrass produces increased dry matter throughout winter and early spring
- ⊕ Later heading ryegrasses produce high-quality leafy feed later in the season

### Early

**Tetila** tetraploid annual ryegrass  
**Nui** diploid perennial ryegrass  
**Middini CM142** diploid perennial ryegrass  
**Tetrone** tetraploid annual ryegrass

### Mid

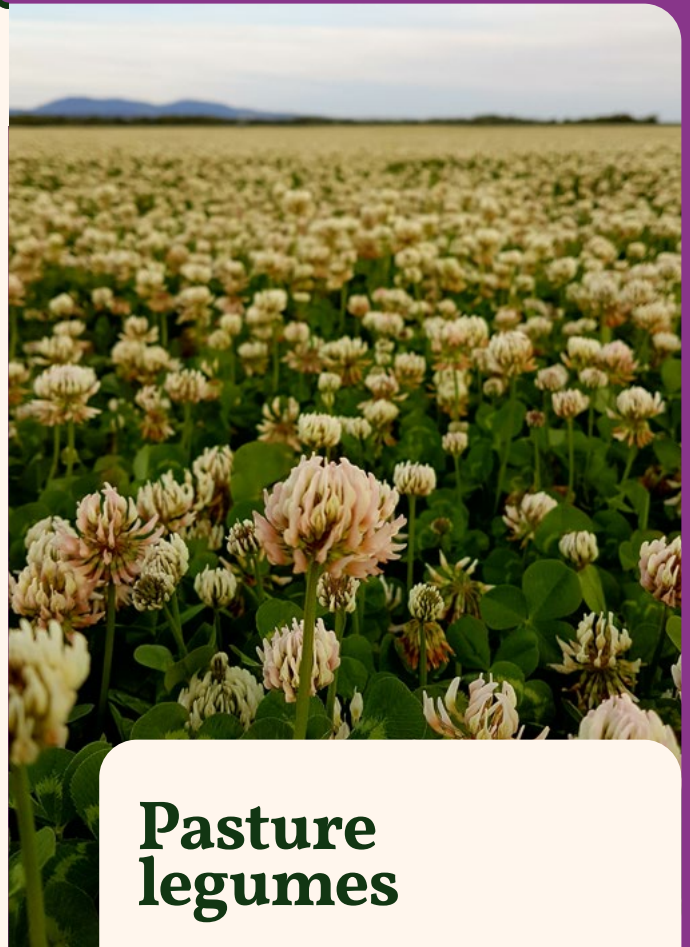
**Koga** tetraploid annual ryegrass  
**Bermagui** diploid Italian ryegrass  
**Moana** diploid perennial ryegrass

### Late

**Almonta CM142** diploid perennial ryegrass  
**Loader** tetraploid annual ryegrass  
**Sorrento** diploid Italian ryegrass  
**Mazzoletti** tetraploid Italian ryegrass  
**Maheno** tetraploid Italian ryegrass  
**Greenmount CM142** tetraploid hybrid ryegrass  
**Coorong CM142** tetraploid perennial ryegrass  
**Kiama** tetraploid annual ryegrass

### Very late

**Impact** diploid perennial ryegrass  
**San Remo** diploid perennial ryegrass



## Pasture legumes

Pasture legumes enhance soil fertility while delivering nutritious forage for livestock. Known for their nitrogen-fixing properties and adaptability, they are a sustainable choice for grazing or hay production across various conditions.



## Enduromax

**BALANSA CLOVER**  
: *Trifolium michelianum*



Early-maturing balansa with elite winter production

Sowing rate	Dryland	4-6kg/ha
	High rainfall/irrigation	8-12kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Earliest balansa clover variety
- ⊕ Very high hard seed levels
- ⊕ Good early winter growth compared with other balansa clover varieties

## Border

**BALANSA CLOVER**  
: *Trifolium michelianum*



Mid-maturity balansa with excellent persistence

Sowing rate	Dryland	4-6kg/ha
	High rainfall/irrigation	8-12kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Excellent regenerating annual for late season environments with wet winters
- ⊕ Heading date similar to Paradana
- ⊕ High hard seed levels
- ⊕ Waterlogging tolerant

## Baler

**BALANSA CLOVER**  
: *Trifolium michelianum*



Very late maturing balansa for maximum yield potential

Sowing rate	Dryland	4-6kg/ha
	High rainfall/irrigation	8-12kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Very late maturing
- ⊕ Waterlogging tolerant
- ⊕ Good cold tolerance
- ⊕ Excellent regrowth from grazing and cutting

## Turbo

**PERSIAN CLOVER**  
: *Trifolium resupinatum*



Late-season Persian with excellent recovery from grazing or harvest

Sowing rate	Dryland	6-10kg/ha
	High rainfall/irrigation	10-15kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Excellent seedling establishment & winter growth
- ⊕ Very late maturing variety
- ⊕ Good frost tolerance
- ⊕ Highly digestible source of forage

## SARDI Persian

**PERSIAN CLOVER**  
: *Trifolium resupinatum*



Hard seeded type with mid-maturity

Sowing rate	Dryland	5-8kg/ha
	High rainfall/irrigation	10-15kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Highly digestible forage legume
- ⊕ Tolerant of waterlogging
- ⊕ Hard seeded Persian clover 'resupinatum' type
- ⊕ Excellent feed conversion for grazing animals

## Rosella

**CRIMSON CLOVER**  
: *Trifolium incarnatum*



Mid-maturing soft seeded type

Sowing rate	Dryland	5-8kg/ha
	High rainfall/irrigation	10-15kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Quick biomass production in cover crop and grazing situations
- ⊕ Good cool season growth
- ⊕ The flower is very attractive to pollinators

## SARDI Rose

**ROSE CLOVER**  
: *Trifolium hirtum*



Highly persistent rose clover with improved hard seed levels

Sowing rate	Dryland	5–8kg/ha
	High rainfall/irrigation	10–15kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Highest hard seed levels of any rose clover
- ⊕ Pioneering species
- ⊕ Tolerant to mildly acidic soils
- ⊕ Regenerates in soils with low fertility pastures

## Zulumax®

**ARROWLEAF CLOVER**  
: *Trifolium vesiculosum*



Long-season variety with high yield potential

Sowing rate	Dryland	6–10kg/ha
	High rainfall/irrigation	10–15kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Late heading date
- ⊕ Adaptable to heavy and low pH soils
- ⊕ Low bloat potential
- ⊕ Very high yield potential

## Bartolo

**BLADDER CLOVER**  
: *Trifolium spumosum*



Adaptable over a wide range of soil types, very high levels of hard seed

Sowing rate	Dryland	8–14kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Adaptable to a wide range of soil types
- ⊕ Some tolerance to RLEM
- ⊕ Very high hard seed levels
- ⊕ Suitable for low rainfall pastures

## Dalsa®

**SUB CLOVER**  
: *Trifolium subterraneum*



Early-maturing conventional sub with great early vigour

Sowing rate	Dryland	8–14kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ High stolon density
- ⊕ Strong root system
- ⊕ Highly persistent in higher rainfall environments
- ⊕ Highly digestible forage

## Hatrik®

**SUB CLOVER**  
: *Trifolium subterraneum sub species yanninicum*



Mid-maturity, white-seeded sub clover with waterlogging tolerance

Sowing rate	Dryland	8–14kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Tetraploid type
- ⊕ Erect growing 'hay type'
- ⊕ High yielding
- ⊕ Good disease tolerance

## Clare2®

**SUB CLOVER**  
: *Trifolium subterraneum sub species brachycalycinum*



Mid maturity, large leaf 'brachy' type sub clover

Sowing rate	Dryland	8–14kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Large leaf *brachycalycinum* type
- ⊕ Mid maturity variety
- ⊕ Excellent early vigour
- ⊕ Adapted to a range of soil types

## Ovaflow®

### SUB CLOVER

: *Trifolium subterraneum*



Late-maturing conventional sub for high yields in regenerating pastures

Sowing rate	Dryland	8–14kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Late-maturing conventional sub clover
- ⊕ Good burr burial strength
- ⊕ Tolerant to hard levels of grazing
- ⊕ High yield potential in late-season environments

## Casper

### WHITE CLOVER

: *Trifolium repens*



Early maturing variety with large leaf size

Sowing rate	Dryland	3–4kg/ha
	High rainfall/irrigation	5–8kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Early maturing variety
- ⊕ Large leaf trait
- ⊕ Excellent permanent pasture option
- ⊕ Quick recovery from grazing

## Jumbo

### WHITE CLOVER

: *Trifolium repens*



Late maturing 'Ladino' type

Sowing rate	Dryland	3–4kg/ha
	High rainfall/irrigation	5–8kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ 'Ladino' type with large leaves
- ⊕ Excellent recovery from grazing
- ⊕ High heat tolerance gives year-round production

## Riesling

### WHITE CLOVER

: *Trifolium repens*



Early-maturing variety with high stolon density

Sowing rate	Dryland	3–4kg/ha
	High rainfall/irrigation	5–8kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ High stolon density
- ⊕ Strong root system
- ⊕ Highly persistent in higher rainfall environments
- ⊕ Highly digestible forage

## Renegade

### RED CLOVER

: *Trifolium pratense*



High-yielding, short-term red clover

Sowing rate	Dryland	3–4kg/ha
	High rainfall/irrigation	5–8kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Tetraploid type
- ⊕ Erect growing 'hay type'
- ⊕ High-yielding
- ⊕ Good disease tolerance
- ⊕ Excellent hay type for top end forage yield and annual mixes

# Clover

## Species identification and agronomic traits

Variety & species	Annual/perennial	Maturity	Hard seed		Waterlogging	Other traits
Turbo persian	Annual	Very late/multi-cut	Low		Tolerant	Good heat and frost tolerance, low bloat, large leaf
SARDI persian	Self-regenerating	Mid	High		Tolerant	Low growth points. Regenerates from hard seed.
Zulumax arrowleaf	Self-regenerating	Late	High		Poor	Deep taproot, low bloat, poor winter growth. Regenerates from hard seed.
Rosella crimson clover	Annual	Mid	Low		Poor	Fast to establish with high winter growth. Ideal for forage or cover cropping.
Alexandria berseem	Annual	Mid-late	Low		Tolerant	Good early vigour, susceptible to frost, some salt tolerance
SARDI rose	Self-regenerating	Early-mid	Medium		Poor	Pioneering species (acidic, dry, low fertility)
Bartolo bladder	Self-regenerating	Early	High		Poor	Susceptible to frost. Regenerates from hard seed.
Enduromax balansa	Self-regenerating	Early	High		Tolerant	Good winter production. Regenerates from hard seed.
Border balansa	Self-regenerating	Mid	High		Tolerant	Frost tolerant. Regenerates from hard seed.
Baler balansa	Self-regenerating	Late	High		Tolerant	Spring sow – slow establishment. Regenerates from hard seed.
Renegade red	Perennial	Mid	–		Moderately tolerant	Upright/hay type
Haifa white	Perennial	Early	–		Moderately tolerant	Common, large leaf, high stolon density
Casper white	Perennial	Early	–		Moderately tolerant	Large leaf, improved early vigour
Jumbo white	Perennial	Late	–		Moderately tolerant	Ladino type, vigour, heat tolerance
Palestine strawberry	Perennial	Early	High		Tolerant	Deep-rooted, drought and salt tolerant. Regenerates from hard seed.
Dalsa sub	Self-regenerating	Early (97d)	High		Poor	<i>Subterraneum</i> , burr burial 9
Hatrik sub	Self-regenerating	Mid (114d)	Low		Tolerant	<i>Yannicum</i> , burr burial 5
Clare 2 sub	Self-regenerating	Mid (130d)	Low		Poor	<i>Brachycalycinum</i> , burr burial 1
Ovaflow sub	Self-regenerating	Late (140d)	Low		Poor	<i>Subterraneum</i> , burr burial 6



# Penfield

**SPINELESS BARREL MEDIC**  
: *Medicago truncatula*



Early-maturing spineless barrel medic with  
sulfonylurea (SU) herbicide residue tolerance

Sowing rate	Dryland	10–15kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Early maturity
- ⊕ Aphid resistance
- ⊕ Excellent growth rates, grazing recovery, and tolerance to drought and low-fertility soils
- ⊕ First barrel medic that is both spineless and has SU herbicide residue tolerance

The addition of the SU herbicide tolerance trait offers increased persistence and is a valuable option for those with mixed farming systems, as the use of SU herbicides is common in crop rotations. Previously, medics have been highly susceptible to damage from a range of herbicide residues, particularly SUs.

## From the field

Yield and feed value of grazing end-use medic varieties grown as a crop, Nullawil 2022

Variety	Sowing rate (kg/ha)	17 Oct Biomass (t/ha)	Crude protein (%)	ME (MJ/kg)	ADF (%)	NDF (%)
Paraggio	10	2.7	21.1	10.8	29.9	36.3
Parabinga	10	4.9	18.8	9.3	38.8	47.3
Seraph	10	4.7	22.7	10.4	32.4	38.4
Penfield	10	5.6	19.4	9.7	34.4	41.0

Product developed in collaboration with MLA, AlfaGen Seeds & SARDI



# Cavalier

**SPINELESS BURR MEDIC**  
: *Medicago polymorpha* var *brevispina*



Highly adaptable annual medic with versatile uses

Sowing rate	Dryland	10–15kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Very early maturing
- ⊕ Barrel shaped seed pod
- ⊕ Aphid resistance
- ⊕ Excellent base legume for low rainfall pasture grazing

# Seraph

**STRAND MEDIC**  
: *Medicago littoralis*



Powdery mildew resistant, SU residue-tolerant strand medic

Sowing rate	Dryland	10–15kg/ha
	High rainfall/irrigation	15–20kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Excellent early vigour and winter production
- ⊕ Resistant to SU herbicide and powdery mildew
- ⊕ Palatable at all growth stages
- ⊕ Good adaptation to alkaline soils and low rainfall

# Silver

**SNAIL MEDIC**  
: *Medicago scutellata*



Excellent base legume for low rainfall pasture grazing

Sowing rate	Dryland	15–18kg/ha
	High rainfall/irrigation	18–25kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Early maturing
- ⊕ Erect growth habit with very early bulk
- ⊕ Excellent hay option
- ⊕ Excellent vigour and persistence

## Medic identification



**Cavalier  
spineless burr**



**Button**



**Burr**



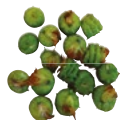
**Barrel**



**Penfield  
spineless barrel**



**Silver snail**



**Seraph strand**



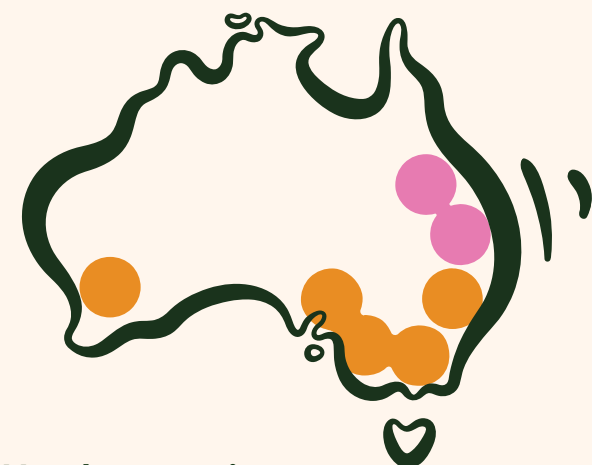
## Forage cereals & winter legumes

AlfaGen Seeds provides a range of proprietary forage cereals and winter legumes to help bridge the winter feed gap. With flexible planting windows from early autumn to early spring, our varieties ensure reliable forage supply when other feed sources are limited.

They can also play a role in improving soil quality, reducing erosion, and minimising pollution of waterways.

# Forage cereals

## Sowing guide



### Northern regions

BRONCO FORAGE OATS & KRAKEN FORAGE BARLEY

### Southern regions

KRAKEN FORAGE BARLEY, OVERLAND FORAGE OATS & TIMOK VETCH

In the north, begin with Bronco forage oats; in the south, choose Overland. Follow with Kraken forage barley in early winter for ongoing growth. Timok vetch sown in early autumn suits grazing or manure crops, while a later sowing is ideal for hay. Overland and Bronco also work well planted in early spring for late-season feed. Stagger sowing dates to maintain steady grazing until spring pastures return.

#### EARLY AUTUMN

- ⊕ **Bronco** forage oats
- ⊕ **Overland** forage oats

#### EARLY SPRING

- ⊕ **Bronco** forage oats
- ⊕ **Overland** forage oats
- ⊕ **Timok** vetch

#### WINTER

- ⊕ **Kraken** forage barley
- ⊕ **Overland** forage oats
- ⊕ **Bronco** forage oats
- ⊕ **Timok** vetch

# Bronco

FORAGE OATS  
: *Avena sativa*



The ideal forage oats choice for Northern Australia

Sowing rate	Dryland	30–50kg/ha
	High rainfall/irrigation	50–80kg/ha
Seed treatment		None/XLR8® optional

- ⊕ Crown rust resistant
- ⊕ Long season of production
- ⊕ Suitable for grazing, silage or hay production
- ⊕ Flexible option when season extends
- ⊕ Bred for leaf rust resistance
- ⊕ Fast establishing autumn–spring fodder crop with high feed value
- ⊕ Wide leaf, true forage oat with high leaf-to-stem ratio
- ⊕ Excellent recovery from grazing
- ⊕ Proven warm soil emergence

### Rating scale

Early sowing	9
Tillering	8
Late maturity	9
Grazing recovery	8
Forage yield	9
Animal performance	9

Rating scale: 1–9

1 – not recommended  
9 – excellent

# Overland

**FORAGE OATS**  
: *Avena sativa*



A mid-late maturing forage oat with improved tiller production

Sowing rate	Dryland	30–50kg/ha
	High rainfall/irrigation	50–80kg/ha

Seed treatment	None/XLR8® optional
----------------	---------------------

- ⊕ High yielding, high tiller density
- ⊕ Fast establishing autumn–spring fodder
- ⊕ Wide leaf, true forage oat with high leaf-to-stem
- ⊕ High yield potential in late season environments

# Kraken

**FORAGE BARLEY**  
: *Hordeum vulgare*



An early-maturing forage barley, perfect for sowing late and grazing early

Sowing rate	Dryland	30–50kg/ha
	High rainfall/irrigation	50–80kg/ha

Seed treatment	None/XLR8® optional
----------------	---------------------

- ⊕ Two-row awnless forage barley
- ⊕ Good disease resistance package
- ⊕ Sow late and graze early
- ⊕ Suited to winter grazing and/or hay or silage in spring

# Timok

**VETCH**  
: *Vicia sativa*



All-purpose common vetch

Recommended sowing rate	30–45kg/ha
-------------------------	------------

Seed treatment	None/XLR8® optional
----------------	---------------------

- ⊕ Maturity between Rasina and Morava
- ⊕ High yield and rust resistance
- ⊕ Very good vigour at flowering
- ⊕ Excels even in low rainfall situations

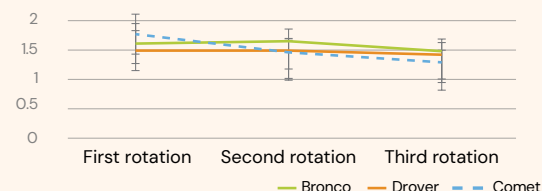
# Forage oats grazing trial

2019 | PENFIELD RESEARCH STATION

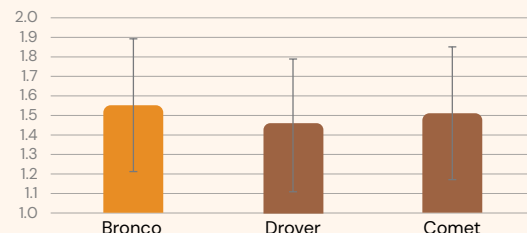
An irrigated 6ha paddock was divided into 12 half-hectare sections. On May 13, four sections were each sown with Bronco forage oats, Drover oats, and Comet oats.

- ⊕ Sowing rate was 75kg/ha
- ⊕ 30 Angus x Hereford steers and heifers were split into three grazing groups of 10 animals each, with an average starting weight of 229kgs and began grazing the trial on August 19, 15 weeks after sowing
- ⊕ The three groups simultaneously grazed each of the varieties throughout the duration of the trial
- ⊕ The trial ran for 12 weeks, each variety was grazed for an equal duration by each group of cattle
- ⊕ No other feed or supplements were given to the animals

## Daily average weight gain (kg LWG/animal)



## Average total weight gain (kg LWG/animal/day)



Feed test taken prior to first grazing. Samples were taken from fresh pasture cuts and analysed for the following quality characteristics:

	Bronco	Drover	Comet
Dry Matter %	13.0	13.0	12.8
Neutral Detergent Fibre %	36.2	39.3	39.1
Crude Protein %	32.0	29.5	31.7
Digestibility (DMD) %	90.1	87.7	87.1
ME (MJ/kg DM)	13.9	13.5	13.4



# Forage barley grazing trial

2020 | PENFIELD RESEARCH STATION

An irrigated 6ha paddock was divided into 12 half-hectare sections. On May 1, four sections were each sown with Kraken, Moby and Dictator 2.

- ⊕ Sowing rate was 75kg/ha
- ⊕ 27 Angus x Hereford steers and heifers were split into three grazing groups of nine animals each, with an average starting weight of 201kgs, and began grazing the trial on August 7, 14 weeks after sowing
- ⊕ The three groups simultaneously grazed each of the varieties throughout the duration of the trial
- ⊕ The trial ran for 12 weeks, each variety was grazed for an equal duration by each group of cattle
- ⊕ No other feed or supplements were given to the animals

## Daily average weight gain (kg LWG/animal)

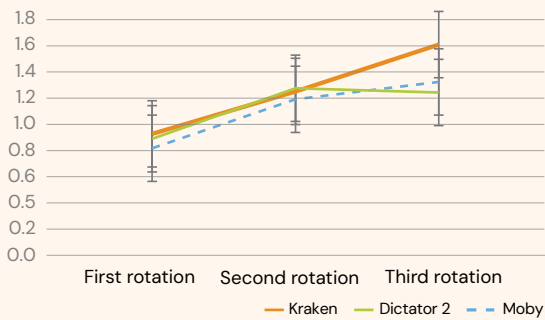


Figure 1: Average weight gain of cattle over the three rotations.

## Forage production (t DM/ha)

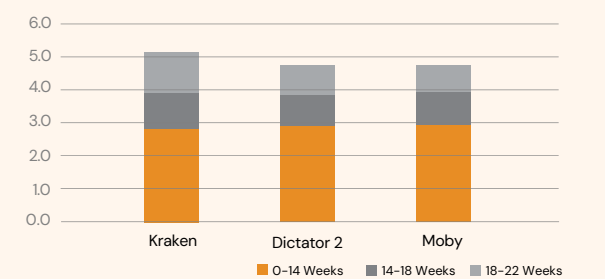


Figure 2: Dry matter production comparison between the three varieties and grazing rotations.

## Average total weight gain (kg LWG/animal/day)

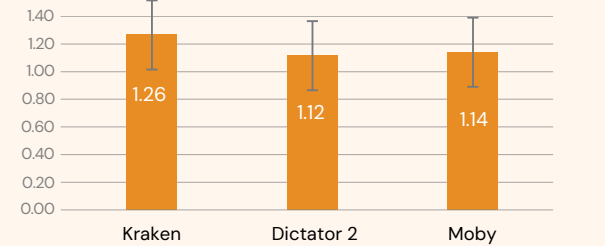


Figure 3: Total average weight gain for each variety for the duration of the trial.

Table 1: Feed quality results prior to first grazing.

	Kraken	Dictator 2	Moby
Dry Matter %	11.6	11.2	11.6
Neutral Detergent Fibre %	42.9	44.7	46.2
Crude Protein %	27.4	27.0	26.9
Digestibility (DMD) %	87.2	86.8	85.7
ME (MJ/Kg DM)	13.4	13.3	13.1



## Forage herbs & brassica

Forage herbs and brassica provide highly nutritious, high-quality feed, supporting livestock health and delivering significant live weight gains. Their rapid establishment, excellent regrowth and high palatability make them ideal for filling feed gaps quickly when traditional pastures underperform. Additionally, they offer an agronomic solution for pasture renovation, helping to control weeds and address paddock challenges while boosting productivity.

# Forage herbs & brassica

## Sowing guide



## Regions

QUEENSLAND, NEW SOUTH WALES, VICTORIA,  
TASMANIA, SOUTH AUSTRALIA & WESTERN AUSTRALIA

### AUTUMN

- ⊕ **Compass** chicory
- ⊕ **Balance** chicory
- ⊕ **Subzero** hybrid forage brassica
- ⊕ **Ranger** plantain
- ⊕ **Samurai** white mustard
- ⊕ **Smart** radish

### SPRING

- ⊕ **Compass** chicory
- ⊕ **Balance** chicory
- ⊕ **Bouncer** hybrid forage brassica
- ⊕ **Subzero** hybrid forage brassica

## Compass

**CHICORY**  
: *Chicorium intybus*



Short-term, insect-tolerant summer feed that excels in promoting liveweight gains in livestock

Sowing rate	Dryland	3kg/ha
	High rainfall/irrigation	5kg/ha

Seed treatment	None/XLR8® optional
----------------	---------------------

- ⊕ High digestibility and preferred intake for increased animal performance, with low bloat risk
- ⊕ Deep taproot to maximise water-use efficiency
- ⊕ Tolerant to insects that damage brassica crops
- ⊕ Tolerates acid and wet soils
- ⊕ Short-term type with rapid establishment and high production in the first year

## Balance®

**CHICORY**  
: *Chicorium intybus*



True-perennial-type chicory

Sowing rate	Dryland	3kg/ha
	High rainfall/irrigation	5kg/ha

Seed treatment	XLR8®
----------------	-------

- ⊕ Highly digestible dry matter
- ⊕ Excellent pasture mix option
- ⊕ Lowers bloat potential in pasture mixes and has some anthelmintic properties
- ⊕ High forage quality and palatability, with rapid rumen degradation leading to high daily dry matter intake
- ⊕ High yield potential in late season environments

# Subzero

HYBRID FORAGE BRASSICA  
: *Brassica napus*



Long-season hybrid forage brassica with improved cold tolerance

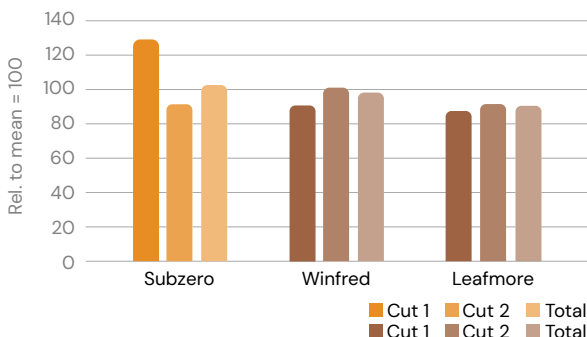
Sowing rate	Dryland	3kg/ha
	High rainfall/irrigation	5kg/ha

Seed treatment	XLR8®
----------------	-------

- ⊕ Quick to establish in warm soils, so quicker to first grazing
- ⊕ Retains and holds quality once ripe allowing flexibility in grazing management
- ⊕ Excellent regrowth after grazing allowing for multiple grazing without the need to resow

## Breeza Forage Brassica Trial 2023

Comparison of autumn sown Subzero, Winfred and Leafmore forage brassicas



# Bouncer

HYBRID FORAGE BRASSICA  
: *Brassica campestris*



A reliable and nutritious forage solution, perfect for quickly filling feed gaps

Sowing rate	Dryland	3kg/ha
	High rainfall/irrigation	5kg/ha

Seed treatment	None/XLR8® optional
----------------	---------------------

- ⊕ Very quick time to first grazing, 6–8 weeks from emergence, so can provide feed quicker than other brassica
- ⊕ No ripening of forage required before grazing, excellent grazing tolerance

# Case study

## Calculating crop requirements and making it pay!

### Scenario

I have 100 young steers that I want to feed from December to February on a crop of Subzero hybrid forage brassica and Rebound® millet.

**What area do I need to sow, and will I make a return?**

### Assumptions

- ⊕ A 250kg steer, gaining 1kg/day has a DSE rating of 9
- ⊕ Maximum daily feed intake =  $0.8 \times \text{DSE}$  (or use  $1.2 \times \text{liveweight} \div \text{NDF\%}$ )
- ⊕ The crop provides the energy, protein, and fibre requirements for this class of stock and has grown 8t/ha of Dry Matter (DM)
- ⊕ Allow 30% wastage in a set-stocked grazing system

### Calculations

#### Step 1: How much crop?

Intake =  $0.8 \times 9 = 7.2\text{kg/DM/head/day}$   
 $7.2\text{kg} + 30\% \text{ wastage} = 9.4\text{kg/DM/head/day}$   
 $9.4\text{kg} \times 100 \text{ head} = 940\text{kg/DM/day}$   
 $940\text{kg} \times 100 \text{ days} = 94 \text{ tonne to fully feed all steers}$   
 $94\text{t} \div 8\text{t/ha supplied} = 11.75\text{ha required}$

#### Step 2: What's the cost?

Knockdown herbicide/insecticide \$25  
 Lime & fertiliser \$350  
 Cultivation/contractor \$300  
 Seed \$85

⊕ **Total cost = \$760/ha**

#### Step 3: What have I made?

Stocking rate =  $100 \text{ steers} \div 11.75\text{ha} = 8.5 \text{ steers/ha}$   
 Gaining 1kg/head/day for 100 days = 850kg/ha  
 $850\text{kg} \times \$4.00/\text{kg} = \$3,400.00/\text{ha}$

⊕ **Total potential income = \$3,400/ha**

# Ranger®

**PLANTAIN**  
: *Plantago lanceolata*



Perennial grazing forage herb that delivers minerals to support animal health and live weight production

Sowing rate	Dryland	1-3kg/ha
	High rainfall/irrigation	4-8kg/ha

Seed treatment	Goldstrike®
----------------	-------------

- ⊕ Excellent cool-season growth for improved animal production
- ⊕ Accumulates nutrients and minerals in forage, providing a source of trace elements to grazing animals
- ⊕ High forage quality and palatability, with rapid rumen degradation leading to high daily dry matter intake

# Smart

**RADISH**  
: *Raphanus sativus* L



Tillage-type radish with 'pull-down' bulb

Sowing rate	Dryland	5kg/ha
	High rainfall/irrigation	8kg/ha

Seed treatment	Fungicide/XLR8® optional
----------------	--------------------------

- ⊕ 'Pull-down' bulb grows further into the ground
- ⊕ Very quick to establish
- ⊕ Increases water infiltration and alleviates soil compaction
- ⊕ Good forage for grazing

# Samurai

**WHITE MUSTARD**  
: *Sinapis alba*



Early/mid maturing floral resource for bee forage and insect habitation

Sowing rate	Dryland	3-4kg/ha
	High rainfall/irrigation	5-8kg/ha

Seed treatment	XLR8® optional
----------------	----------------

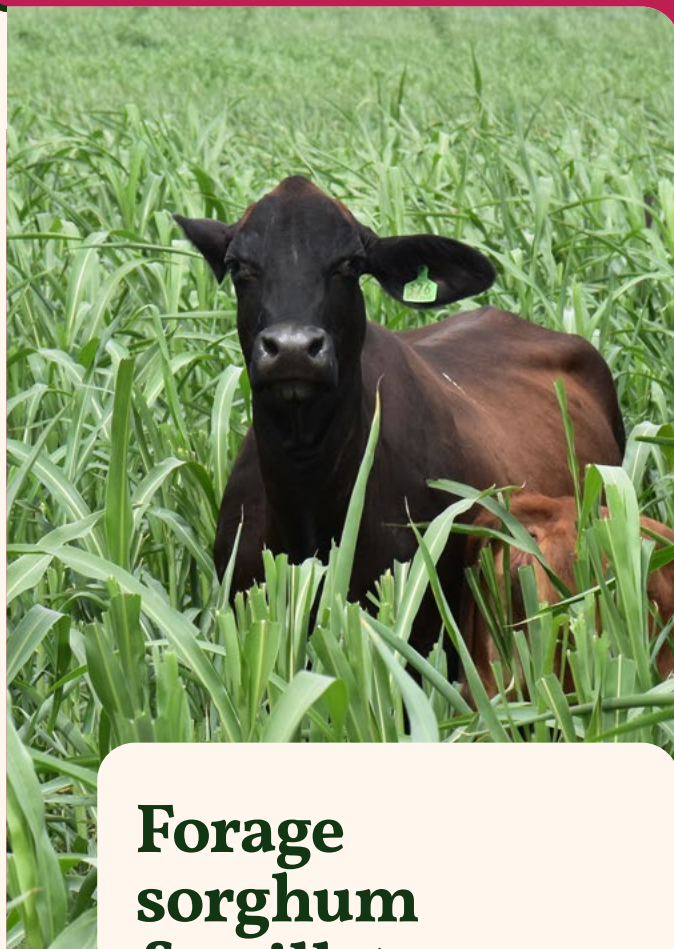
- ⊕ Abundant floral production
- ⊕ Sustained flowering period
- ⊕ Very attractive to bees and other beneficial insects
- ⊕ Reduces soil-borne pathogens

## Forage options

How to make the right choice

Product	Species	Crop	Time to graze	Lifespan
Bouncer	Hybrid forage brassica	Leafy turnip	6-8 weeks	6-9 months
Subzero	Hybrid forage brassica	Rape/turnip	8-12 weeks	10-18 months
Compass	Chicory	Short-term	8+ weeks	6-18 months
Balance	Chicory	Perennial	8-14 weeks	2-3 years
Ranger	Plantain	Perennial	8+ weeks	2-4 years





## Forage sorghum & millet

Forage sorghum is a versatile and drought-resilient crop, ideal for warmer regions of Australia. Known for its rapid growth and high biomass production, it provides a reliable source of feed for livestock, particularly in regions with variable rainfall. Its adaptability and efficiency make it a valuable option for sustainable forage production in challenging climates.

# Fine As

**FORAGE SORGHUM**  
: *Sorghum bicolor* hybrid



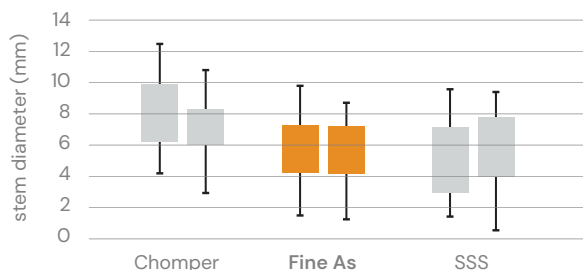
This sorghum x Sudan x Sudan hybrid is a superb choice for hay and grazing, with low prussic acid risk

Sowing rate	Dryland	6-10kg/ha
	High rainfall/irrigation	15-20kg/ha

Seed treatment	Enhanced or Standard
----------------	----------------------

- ⊕ Low prussic acid risk
- ⊕ Fine stems, high leaf-to-stem ratio
- ⊕ Large seed for easier establishment
- ⊕ Highly palatable
- ⊕ Quick regrowth for more cuts or grazings per season
- ⊕ Finer stems for faster, more even drying when making hay

## Fine As forage sorghum – stem diameter



Fine As is a forage sorghum selected for its fine tillering characteristics, exceptional regrowth and fine stems.

These traits make it a superb choice for hay and grazing, and the low prussic acid risk means you can graze with confidence.

# Chomper

**FORAGE SORGHUM**  
: *Sorghum bicolor* hybrid



Mid-maturing sorghum x Sudan hybrid forage

Sowing rate	Dryland	4-8kg/ha
	High rainfall/irrigation	15-20kg/ha

Seed treatment	Enhanced or Standard
----------------	----------------------

- ⊕ Large seed size
- ⊕ Good early season vigour
- ⊕ Quick regrowth after cutting or grazing
- ⊕ High leaf-to-stem ratio

# FlexiGraz®

**FORAGE SORGHUM**  
: *Sorghum bicolor* hybrid



Photoperiod sensitive, sorghum x Sudan x Sudan hybrid, ideally suited to hay production and grazing

Sowing rate	Marginal Dryland	3-5kg/ha
	Dryland	8-15kg/ha
	High rainfall/irrigation	15-20kg/ha

Seed treatment	Enhanced or Standard
----------------	----------------------

- ⊕ Photoperiod sensitivity provides a very long growing period prior to flowering to maximise yield
- ⊕ Low prussic acid risk

# Calibre BMR®

**FORAGE SORGHUM**  
: *Sorghum bicolor* hybrid



Early to mid-maturing brown mid-rib (BMR) forage sorghum x Sudan hybrid

Sowing rate	Dryland	4-8kg/ha
	High rainfall/irrigation	15-20kg/ha

Seed treatment	Enhanced or Standard
----------------	----------------------

- ⊕ 12 gene BMR
- ⊕ Highly digestible forage
- ⊕ Excellent yield potential
- ⊕ Increased livestock weight gain

# Sweet As

**FORAGE SORGHUM**  
: *Sorghum bicolor* hybrid



High sugar content for high quality stand-over feed and silage

Sowing rate	Dryland	4-8kg/ha
	High rainfall/irrigation	15-20kg/ha

Seed treatment	Enhanced or Standard
----------------	----------------------

- ⊕ Large seed size for fast emergence and good seedling vigour
- ⊕ Late maturing
- ⊕ High yield potential in late season environments

# Rebound®

**FORAGE MILLET**  
: *Echinochloa esculenta*



Fast growing summer forage millet

Sowing rate	Dryland	10-15kg/ha
	High rainfall/irrigation	30-40kg/ha

Seed treatment	None/XLR8® optional
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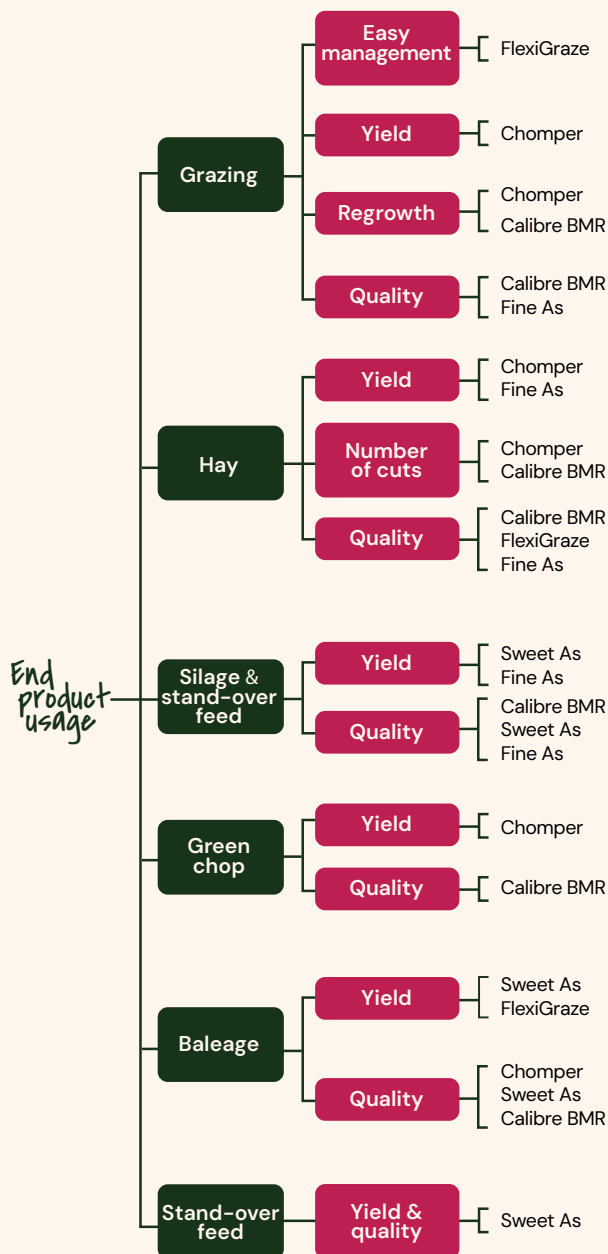
- ⊕ Fast growing summer grass
- ⊕ Safe, good quality feed
- ⊕ Excellent regrowth after cutting
- ⊕ Plant when soil temperatures are 14°C and rising

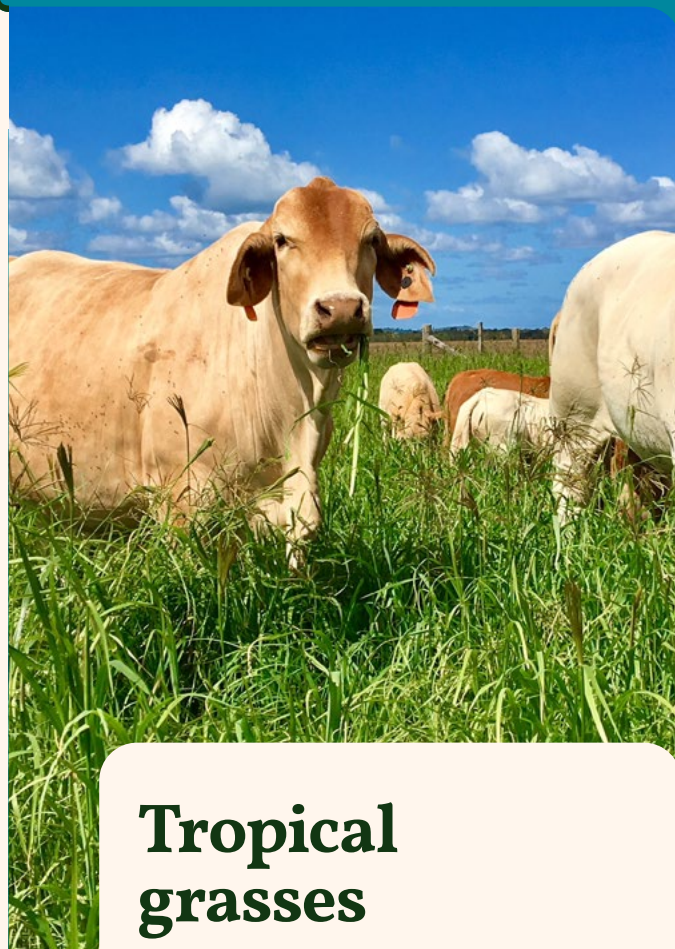
## Seed treatment options for forage sorghum

- ⊕ **Enhanced seed treatment for forage sorghum**  
Includes Thiram fungicide and Epivio® C seed treatment to protect from the phytotoxic effects of some herbicide.
- ⊕ **Standard seed treatment for forage sorghum**  
Includes Thiram fungicide only.

# Forage sorghum options

Find your perfect product





## Tropical grasses

Tropical grasses are well-suited to challenging climates, offering reliable performance in a variety of soil types. Their palatability and persistence make them a practical choice for grazing or hay production in tropical and subtropical climates.

## Gatton

**PANIC GRASS**  
: *Panicum maximum*



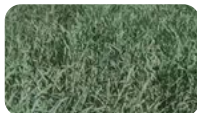
Subtropical grass adapted to a wide variety of soil types

Recommended sowing rate	6–12kg/ha
Seed treatment	Goldstrike XLR8®

- ⊕ Suitable to a variety of soil types
- ⊕ Moderately tolerant to drought
- ⊕ Suited for grazing or cutting for hay
- ⊕ Adaptable, clumping type

## Bambatsi

**PANIC GRASS**  
: *Panicum maximum*



Subtropical grass well suited to heavy soils

Recommended sowing rate	6–12kg/ha
Seed treatment	Goldstrike XLR8®

- ⊕ Cold and drought tolerant
- ⊕ High forage quality
- ⊕ High levels of animal performance
- ⊕ Reliable grass for heavy soils

## Premier

**DIGITARIA**  
: *Digitaria eriantha*



Subtropical grass with high palatability and intake potential

Recommended sowing rate	6–12kg/ha
Seed treatment	Goldstrike XLR8®

- ⊕ Persists well on light soils
- ⊕ Good acid tolerance
- ⊕ Highly palatable
- ⊕ Fine stems result in high animal intake

## Capricorn

**RHODES GRASS**  
: *Chloris gayana*



Later-maturing subtropical forage Rhodes grass

Recommended sowing rate	6–12kg/ha
Seed treatment	Goldstrike XLR8®

- ⊕ Later maturing than Katambora
- ⊕ Finer stems
- ⊕ Vigorous regrowth from grazing & cutting for hay
- ⊕ Highly palatable for grazing

## Callide

**RHODES GRASS**  
: *Chloris gayana*



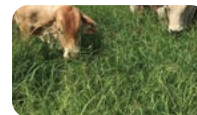
Improved subtropical Rhodes grass variety

Recommended sowing rate	6–12kg/ha
Seed treatment	Goldstrike XLR8®

- ⊕ Drought tolerant
- ⊕ Later flowering than Katambora
- ⊕ Improved palatability
- ⊕ More productive than Katambora

## Bisset

**CREeping BLUEGRASS**  
: *Bothriochloa insculpta*

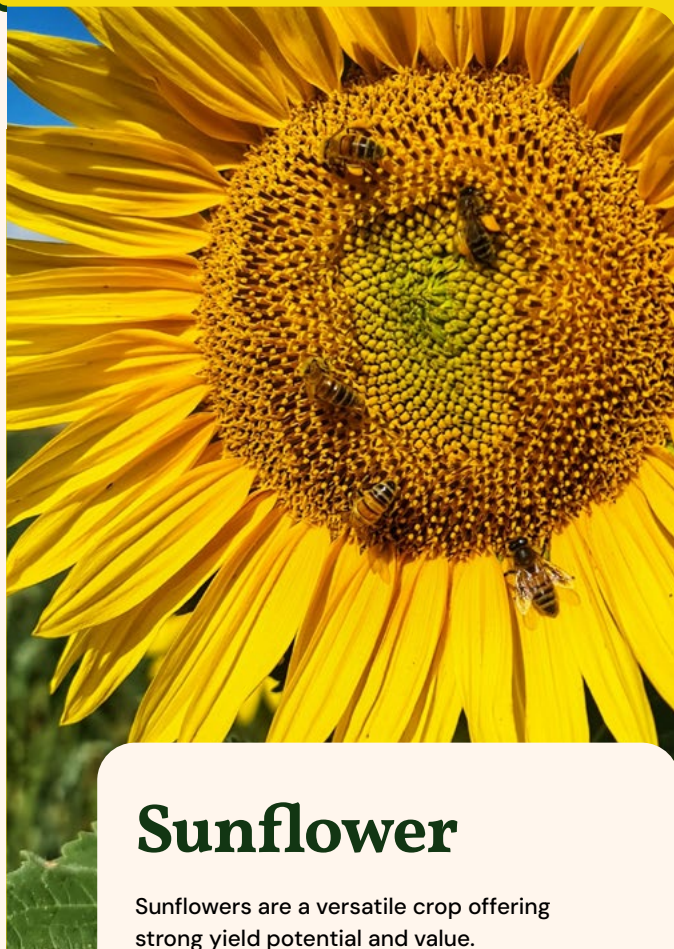


High-quality subtropical grass with excellent ground cover

Recommended sowing rate	6–12kg/ha
Seed treatment	Goldstrike XLR8®

- ⊕ Highly palatable
- ⊕ Excellent drought tolerance
- ⊕ Grazing tolerant
- ⊕ Long-term perennial grass base for a pasture
- ⊕ Grows in a range of conditions





## Sunflower

Sunflowers are a versatile crop offering strong yield potential and value.

Adapted to perform in suitable dryland and high-rainfall conditions, they are a resilient choice for Australian farming systems.

# SuperSun 66

SUNFLOWER  
: *Helianthus annuus*



Hybrid polyunsaturated black-seeded sunflower

Sowing rate	Marginal dryland	25k-35k kernals/ha
	Dryland	35k-45k kernals/ha
	High rainfall/irrigation	55k-65k kernals/ha

Seed treatment	Enhanced (Cosmos <sup>®</sup> insecticide)
----------------	--

- ⊕ Proven to perform under marginal dryland in tough seasonal conditions
- ⊕ Semi-pendulous head reduces sunburn, head rot, and bird damage
- ⊕ Excellent yield potential under favourable conditions
- ⊕ Access to premium human consumption markets (dehulling)

## Rating scale

Standability

9

Disease resistance

7

Adaption

8

Weed competitiveness

4

Grown on soil moisture

9

Irrigation

8

TSV (tobacco streak virus) resistance

2

Rating scale: 1-9

1 - not recommended  
9 - excellent



## SOWsmart<sup>®</sup> blends

SOWsmart<sup>®</sup> blends combine top-performing seed varieties with ongoing innovation to create pastures well suited to Australia's diverse environments. With options designed for different livestock operations, SOWsmart<sup>®</sup> makes it simpler to find the right pasture.

Each blend's name starts with a clear descriptor, and some include a two-letter code to guide your selection.

LS = light soils

HS = heavy soils

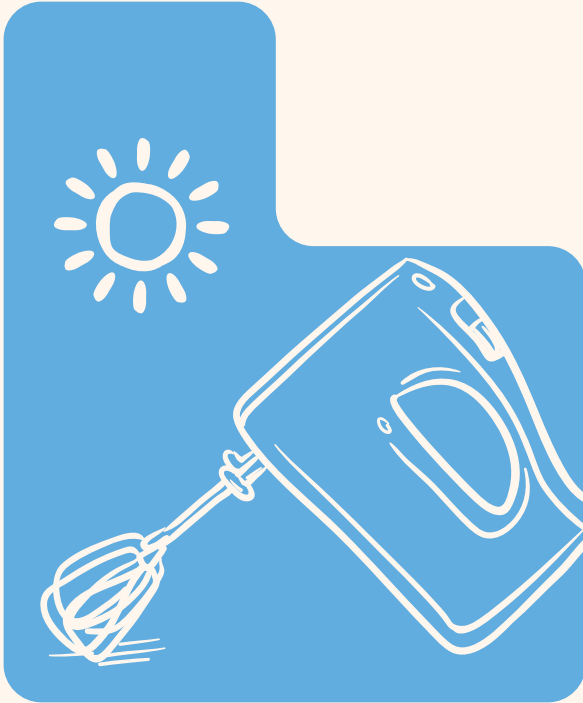
LR = low rainfall

HR = high rainfall

Descriptor

Suitability

PerennialHR



# Custom blending

AlfaGen Seeds also offer tailor-made seed blends designed to match specific growing conditions. These blends allow you to choose the best combination of forages, legumes, cereals, and other crops, optimising yields and resource use while enhancing sustainability.

Custom blends improve efficiency by complementing growth habits, boosting disease resistance, and adapting to environmental conditions. With a custom seed blend, you can sow the mix in a single pass, reducing labour costs and increasing efficiency.

Speak to your local retail store or AlfaGen Seeds Territory Manager to find out more.

## Perennial HR

### SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light & heavy
Sowing rate	25–30kg/ha
Usage	Pasture production

<b>Coorong CM142</b> tetraploid perennial ryegrass	40%
<b>Moana</b> diploid perennial ryegrass	40%
<b>Casper</b> white clover Goldstrike®	10%
<b>Riesling</b> white clover Goldstrike®	10%
► Not recommended for horses	

## Southern Horse HR

### SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light & heavy
Sowing rate	12–18kg/ha
Usage	Southern equine pastures

<b>Sorrento</b> diploid Italian ryegrass	30%
<b>Matua</b> prairie grass	30%
<b>Brighton</b> continental cocksfoot	20%
<b>L71</b> lucerne Goldstrike XLR8®	10%
<b>Hatrik</b> sub clover Goldstrike®	5%
<b>Baler</b> balansa clover Goldstrike®	5%

## Southern Horse LR

### SOWSMART® BLEND

Minimum rainfall	400mm
Soil type	Light
Sowing rate	12–18kg/ha
Usage	Southern equine pastures

<b>Matua</b> prairie grass	30%
<b>Brighton</b> cocksfoot	20%
<b>Sunrise</b> phalaris	15%
<b>Dalsa</b> sub clover Goldstrike®	15%
<b>Enduromax</b> balansa clover Goldstrike®	10%
<b>Hatrik</b> sub clover Goldstrike®	10%

# Northern Horse HS

## SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Heavy
Sowing rate	10–15kg/ha
Usage	Northern equine pastures

<b>Katambora</b> Rhodes grass Goldstrike XLR8®	25%
<b>Matua</b> prairie grass	25%
<b>Bambatsi</b> panic Goldstrike XLR8®	20%
<b>GTL60®</b> lucerne Goldstrike XLR8®	20%
<b>Enduromax</b> balansa clover Goldstrike®	10%

# Northern Horse LS

## SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light
Sowing rate	10–15kg/ha
Usage	Northern equine pastures

<b>Gatton</b> panic Goldstrike XLR8®	35%
<b>Premier</b> digitaria Goldstrike XLR8®	35%
<b>L71</b> lucerne Goldstrike XLR8®	20%
<b>Enduromax</b> balansa clover Goldstrike®	10%

# Grazier

## SOWSMART® BLEND

Minimum rainfall	400mm
Soil type	Light & heavy
Sowing rate	18–25kg/ha
Usage	Pasture production

<b>Shootout</b> diploid perennial ryegrass	20%
<b>Hatrik</b> sub clover Goldstrike®	20%
<b>Middini</b> diploid perennial ryegrass	20%
<b>Origin</b> tall fescue	15%
<b>Dalsa</b> sub clover Goldstrike®	15%
<b>Enduromax</b> balansa clover Goldstrike®	10%

# Persistor

## SOWSMART® BLEND

Minimum rainfall	450mm
Soil type	Suitable to most
Sowing rate	18–25kg/ha
Usage	Pasture production

<b>Dalsa</b> sub clover Goldstrike®	20%
<b>Origin</b> tall fescue	20%
<b>Sunrise</b> phalaris	15%
<b>Brighton</b> continental cocksfoot	15%
<b>Cavalier</b> spineless burr medic Goldstrike®	10%
<b>Border</b> balansa clover Goldstrike®	10%
<b>Hatrik</b> sub clover Goldstrike®	10%

# Winter Max

## SOWSMART® BLEND

Minimum rainfall	450mm
Soil type	Suitable to most
Sowing rate	23–35kg/ha
Usage	Pasture grazing/hay & silage

<b>Sorrento</b> diploid Italian ryegrass	40%
<b>Maheno</b> tetraploid Italian ryegrass	30%
<b>Turbo</b> Persian clover Goldstrike®	20%
<b>Baler</b> balansa clover Goldstrike®	10%

# Winter Express

## SOWSMART® BLEND

Minimum rainfall	450mm
Soil type	Suitable to most
Sowing rate	23–35kg/ha
Usage	Pasture grazing/hay & silage

<b>Loader</b> tetraploid annual ryegrass	70%
<b>Turbo</b> persian clover Goldstrike®	20%
<b>Baler</b> balansa clover Goldstrike®	10%

# HDL

## SOWSMART® BLEND

Minimum rainfall	350mm
Soil type	Suitable to most
Sowing rate	20-25kg/ha
Usage	Pasture production

<b>Cavalier</b> spineless burr medic Goldstrike®	30%
<b>Zulumax</b> arrowleaf clover Goldstrike®	25%
<b>SARDI Persian</b> clover Goldstrike®	25%
<b>Border</b> balansa clover Goldstrike®	20%

# Bloat Fighter

## SOWSMART® BLEND

Minimum rainfall	350mm
Soil type	Light & heavy
Sowing rate	4-6kg/ha
Usage	Pasture production

<b>L71</b> lucerne Goldstrike XLR8®	70%
<b>Compass</b> chicory	30%

# Medic Oversow

## SOWSMART® BLEND

Minimum rainfall	350mm
Soil type	Suitable to most
Sowing rate	3-10kg/ha
Usage	Pasture production

<b>Cavalier</b> spineless burr medic Goldstrike®	25%
<b>Bindaroo</b> button medic Goldstrike®	25%
<b>Silver</b> snail medic Goldstrike®	25%
<b>Penfield</b> spineless barrel medic Goldstrike®	25%

# Tropical Beef LS

## SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light
Seeding rate	6-12kg/ha
Usage	Subtropical pasture

<b>Capricorn</b> ® Rhodes grass	30%
<b>Gatton</b> panic grass	25%
<b>L70</b> lucerne	15%
<b>Premier</b> digitaria grass	30%

# Tropical Beef HS

## SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light & heavy
Sowing rate	6-12kg/ha
Usage	Subtropical pasture

<b>Bambatsi</b> panic grass	20%
<b>Bisset</b> creeping bluegrass	10%
<b>Capricorn</b> ® Rhodes grass	30%
<b>Cavalier</b> spineless burr medic	10%
<b>Gatton</b> panic grass	20%
<b>GTL60</b> ® lucerne	10%

# Slopes and Plains

## SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light & heavy
Sowing rate	3-8kg/ha
Usage	Subtropical pasture

<b>Bambatsi</b> panic grass	25%
<b>Gatton</b> panic grass	25%
<b>Premier</b> digitaria grass	50%



## WINS Row

### SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light & heavy
Sowing rate	80-160kg/ha
Usage	Cover crop/interrow

<b>Kraken</b> forage barley	80%
<b>Timok</b> vetch	17%
<b>Smart</b> radish, fungicide treated	3%

## Dryland Medic Row

### SOWSMART® BLEND

Minimum rainfall	550mm
Soil type	Suitable to most
Sowing rate	35-40kg/ha
Usage	Cover crop/interrow

<b>Shootout</b> diploid perennial ryegrass	40%
<b>Brighton</b> continental cocksfoot	20%
<b>Cavalier</b> spineless burr medic Goldstrike®	20%
<b>Silver</b> snail medic Goldstrike®	20%

## Multi Species Soil Builder

### SOWSMART® BLEND

Minimum rainfall	450mm
Soil type	Suitable to most
Sowing rate	50-65kg/ha
Usage	Cover crop/interrow

<b>Overland</b> forage oats	50%
<b>Presto</b> vetch	20%
<b>Loader</b> tetraploid annual ryegrass	10%
<b>Smart</b> radish, fungicide treated	4%
<b>Subzero</b> hybrid forage brassica	4%
<b>Rosella</b> crimson clover Goldstrike®	4%
<b>White</b> quinoa	4%
<b>Ranger</b> plantain XLR8®	2%
<b>Compass</b> chicory	2%

## All Grass Row LR

### SOWSMART® BLEND

Minimum rainfall	400mm
Soil type	Suitable to most
Sowing rate	35-40kg/ha
Usage	Cover crop/interrow

<b>Shootout</b> diploid perennial ryegrass	40%
<b>Wimmera</b> annual ryegrass	40%
<b>Brighton</b> continental cocksfoot	20%

## Irrigated Row

### SOWSMART® BLEND

Minimum rainfall	700mm
Soil type	Suitable to most
Sowing rate	40-50kg/ha
Usage	Cover crop/interrow

<b>Impact</b> diploid long-rotation ryegrass	60%
<b>Brighton</b> continental cocksfoot	20%
<b>Casper</b> white clover Goldstrike®	10%
<b>Riesling</b> white clover Goldstrike®	10%

## Pollinator

### SOWSMART® BLEND

Minimum rainfall	650mm
Soil type	Light & heavy
Sowing rate	40-60kg/ha
Usage	Cover crop/interrow

<b>Presto</b> vetch	38%
<b>Bee-Ready</b> brassica	13%
<b>Smart</b> radish, fungicide treated	13%
<b>Samurai</b> white mustard	12%
<b>Rosella</b> crimson clover Goldstrike®	12%
<b>Enduromax</b> balansa clover Goldstrike®	6%
<b>SARDI Persian</b> clover Goldstrike®	6%

# Seed size chart

Species	Seeds/kg
Lucerne	
All varieties of lucerne	440,000
Pasture legumes	
Strand medic	400,000
Button medic	250,000
Barrel medic	260,000
Snail medic	130,000
Spineless burr medic	300,000
Sub clover	120,000
White clover	1,600,000
Red clover diploid	500,000
Red clover tetraploid	295,000
Balansa clover	1,450,000
Persian clover-soft	1,200,000
Persian clover-hard	1,400,000
Arrowleaf clover	880,000
Crimson clover	308,000
Rose clover	331,000
Berseem clover	326,000
Strawberry clover	766,000
Gland clover	1,430,000
Bladder clover	500,000
Serradella yellow	196,000
Biserrula	1,000,000
Pasture grasses	
Ryegrass tetraploid	250,000
Ryegrass diploid	460,000
Tall fescue	420,000
Phalaris	650,000
Cocksfoot	1,300,000
Prairie grass	136,000

**Disclaimer:** Seed size table above is an average only, actual seed size can differ on a seasonal basis, this is a guide only.

Species	Seeds/kg
Forage herbs & brassica	
Plantain	500,000
Chicory	830,000
Forage brassica	300,000
Smart radish	55,000
Forage cereals & winter legumes	
Vetch	22,000
Wheat	28,000
Triticale	30,000
Oats	28,000
Field pea	6,600
Barley	30,800
Forage sorghums & millet	
Millet	180,400
Sudan grass	50,000
Sweet sorghum	30,000
Sorghum X Sudan	30,000
Tropical grasses & legumes	
Bambatsi	1,075,300
Premier	2,325,600
Gatton	1,470,600
Narok	877,200
Gayndah	350,900
Biloela	534,800
Callide	3,030,300
Katambora	4,166,700
Kikuyu	410,000
Paspalum	704,000
Puccinellia	5,000,000
Stylo	264,000
Centro	33,000
Cow pea - ebony	8,000
Cow pea - red caloona	15,000
Lablab	6,000

# Seed treatment options

At AlfaGen Seeds, we're dedicated to embracing new technology, continually enhancing our range to deliver cutting-edge solutions and superior performance in our leading forage products.

## Goldstrike®

AlfaGen Seeds Goldstrike® is a high-quality seed coating with innovative technology which supports the crop during establishment and throughout the season, allowing for stronger and more vigorous plant growth. With Goldstrike®, farmers can be assured of a reliable establishment and higher yields of top-quality forage.

### ⊕ Goldstrike® for legumes

Every seed receives a micro-nutrient package and rhizobia inoculant, and Apron® XL fungicide is applied to lucerne and sub clover.

The rhizobia inoculation helps to improve nitrogen fixation and nutrient uptake, while the micronutrient package provides additional essential nutrients for optimal plant growth.

The premium fungicide, applied to lucerne and sub clover, helps to protect the seeds from soil-borne diseases during the critical early stages of plant growth.

### ⊕ Goldstrike® for grasses

Every seed receives a micro-nutrient package using the highest quality coating technology for improved flowability and seed placement while providing additional essential nutrients for optimal growth.

*NB: Goldstrike® for grasses does not contain rhizobia or Apron fungicide*



## XLR8®

XLR8® seed treatment is a film coating of Poncho® Plus insecticide on every seed, designed to give seedlings the best possible start. Poncho® Plus represents a significant advancement in seed treatments, offering broader pest control than any other insecticidal option. Its two powerful active ingredients protect eight crop and pasture types from a range of damaging pests for up to four weeks after sowing.

## Enhanced & Standard For forage sorghum and sunflowers

### ⊕ Standard seed treatment for forage sorghum

Includes Thiram fungicide only.

### ⊕ Enhanced seed treatment for forage sorghum

Includes Thiram fungicide and Epivio® C seed treatment to protect from the phytotoxic effects of some herbicides.

### ⊕ Enhanced seed treatment for sunflowers

Includes Cosmos® insecticide for powerful pest control for a strong crop establishment.

# Insecticide comparison chart

		Seed treatment			Bare seed and foliar spray		
		XLR8® broadleaf pasture	XLR8® grass pasture	Gaucho®	Chlorpyrifos	Ground spray dimethoate	SP foliar
Registered claims benefits	Redlegged earth mite	✓	✓	✓	✓	✓	✓
	Lucerne flea	✓	✓		✓	✓	
	Blue oat mite	✓	✓	✓	✓	✓	✓
	Cutworm	✓	✓		✓		
	Yellowheaded cockchafer		✓				
	African black beetle		✓				
Benefits	May offer Stress Shield™ benefits	✓	✓	✓			
	Up to four weeks systemic protection for emerging seedlings	✓	✓	✓			
	Protection against some soil pests	✓	✓		✓		
	Low impact on beneficial species	✓	✓	✓			
	Targeted chemical placement	✓	✓	✓			

# We're here to help you grow

For technical advice, please contact your local Territory Manager

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Territory  
Managers

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