

# Émerge



## AUTUMN/WINTER EDITION 2022

### PORTFOLIO

Full technical profiles of our Autumn/Winter collection

### TESTIMONIALS

Experiences from farmers around Australia

### PRODUCT INFORMATION

Planting and growing guides to help you get the best results

*Your partner in the paddock*

[swseedco.com.au](http://swseedco.com.au)

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**On the cover:** S&W Territory Manager Nicole Frost and Neil Joiner in SARDI<sup>®</sup> Persian Clover and Zulumax<sup>®</sup> Arrowleaf Clover.

Clover FDE site in Orbost, Vic. S&W Seed Company Australia partnered with AG Warehouse Orbost and Neil Joiner to establish and manage the site.





Image: At four and half weeks after sowing, this paddock of Kraken Forage Barley in Pittsworth Queensland, displayed rapid emergence and uniform establishment.



# Establishment Guarantee<sup>®</sup>

At S&W Seed Company Australia we are so confident in our seed genetics and the quality of our proprietary products, we will replace seed at half the original purchase price if it fails to establish satisfactorily.

Unfortunately establishment failures can occur, so S&W Seed Company Establishment Guarantee<sup>®</sup> program\* is available for the vital 30 day period after planting, and provides growers with substantial savings should they need to replant their paddocks.

S&W is the only forage company in Australia to offer Establishment Guarantee<sup>®</sup>. Plant with peace of mind and the support of S&W Seed Company Australia.

\* Terms and Conditions apply.





**Above**  
Millie Moore, S&W Territory Manager,  
inspecting S&W Overland® at Bordertown  
**Below**  
Shane, Samuel and Stephen Waldhuter

# S&W Overland® fills the winter feed gap

**Forage cereals play a major role in filling the 'winter feed gap' when the growth of summer pasture slows in the north, during the cooler months on tablelands and slopes, and prior to spring pasture growth in the south.**

The farming property, "Hansborough Heights" has been in the Waldhuter family for 107 years, with 3 generations having farmed in that time. Stephen (being the 3rd generation) has been farming all his life, having taken over the farming enterprise with his wife Sheralee in 1999, with their son, Shane (4th generation) and his wife Elissa and 16-month-old son, Samuel, now helping farm the property.

"At the time, we were looking for a good grazing option for the sheep, which would last for a longer period leading into harvest until the other crops have been reaped for stubble grazing. We were recommended the new S&W Overland® Forage Oats." commented Stephen.

"The seven hectares being grown for seed was slow to take off but after the spring rain is now looking good, while we have been grazing 200 ewes on 10 hectares since mid August. The production of Overland Oats has been good for sheep grazing as it has stayed greener for longer than other varieties which will keep the green feed for ewe's right up until harvest time." said Stephen.

The harvested Overland Oats will be included in next year's cropping program and be sown on a larger scale for sheep grazing in 2022.

In 2022, S&W Seed Company Australia Overland Forage Oats will replace Outback Forage Oats. Overland has improved tiller production and a wide leaf, with the same mid-to-late maturity as its predecessor.

Discover how S&W Overland® Forage Oats can help you fill your winter feed gap and provide quality fodder for a productive enterprise. Your local S&W Territory Manager or rural retailer can provide assistance with developing your winter cereal program for next season.



**“**  
**Overland oats has been good for sheep grazing as it has stayed greener for longer than other varieties.**

**Stephen Waldhuter**  
Eudunda, SA

# S&W OVERLAND® FORAGE OATS

S&W Overland® Forage Oats are a mid to late maturing variety, offering quick establishment and high quality forage throughout winter and spring. Their excellent grazing recovery means they bounce back quickly, making them well suited to rotational systems.

With improved tiller production and high leaf retention, S&W Overland® offers high yields for hay, silage and grazing enterprises.



## S&W Overland® Forage Oats

*Avena sativa*

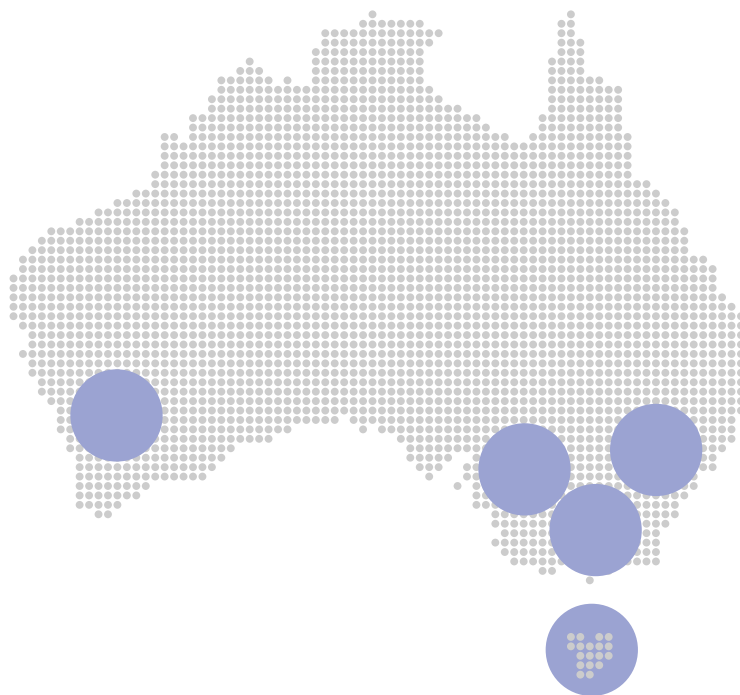
Mid-late maturing forage oat with improved tiller production

**Seeding Rate**            **kg/ha**  
Dryland                    30-50  
High Rainfall/Irrigation   50-80

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Winter forage production and hay

**Features & Benefits**  
Mid-late maturity  
High yielding variety  
Excellent recovery from grazing  
Suitable to grazing or hay production



## Planting Guide

New South Wales, Victoria, Tasmania, South Australia and Western Australia.

## Features & Benefits



Mid-late maturity



Excellent recovery from grazing



High yielding variety



Suitable to grazing or hay production

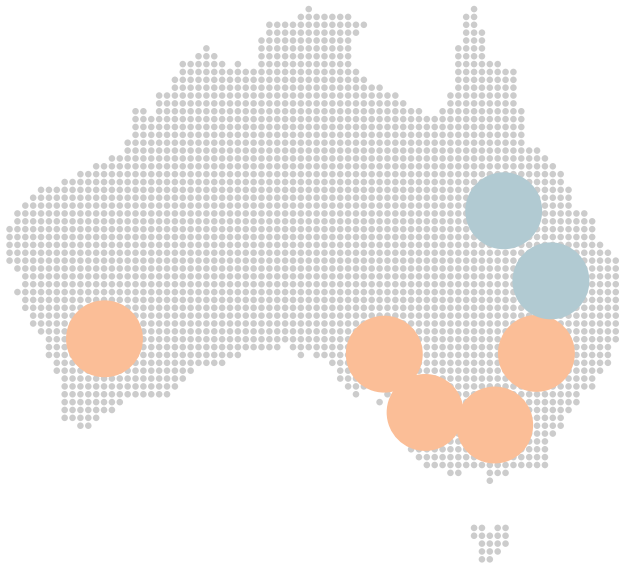


High tiller density



Wide leaf, true forage oat

# FORAGE CEREALS



## Northern Regions

Bronco Forage Oats

## Southern Regions

Kraken Forage Barley, S&W Overland® Forage Oats and Severn

## Forage cereal planting options to get you through the winter feed gap

With the release of Severn, an awnless winter wheat, S&W Seed Company now offers a complete range of forage cereals, offering planting dates from early autumn through until early spring. With the differences in maturity and development, it is possible to start with Severn, switch to either S&W Overland® Forage Oats or Bronco Forage Oats, and then sow Kraken Forage Barley in the early winter. Alternatively, both S&W Overland® and Bronco can be sown at a similar time as Kraken, providing a quick feed option with the slower maturing Severn. These planting options ensure there is grazing available until spring pasture growth has occurred.

## Planting Guide



### Early Autumn

Bronco Forage Oats, S&W Overland® Forage Oats and Severn



### Winter

Bronco Forage Oats, Kraken Forage Barley and S&W Overland® Forage Oats



### Early Spring

Bronco Forage Oats and S&W Overland® Forage Oats



## S&W Overland® Forage Oats

*Avena sativa*

Mid-late maturing forage oat with improved tiller production

Seeding Rate	kg/ha
Dryland	30-50
High Rainfall/Irrigation	50-80

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Winter forage production and hay

**Features & Benefits**  
Mid-late maturity  
High yielding variety  
Excellent recovery from grazing  
Suitable to grazing or hay production



## Kraken Forage Barley

*Hordeum vulgare*

2 row, awnless forage barley

Seeding Rate	kg/ha
Dryland	30-50
High Rainfall/Irrigation	50-80

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Winter forage production and hay

**Features & Benefits**  
White seeded, awnless  
Early vigour and excellent winter growth  
Sow late and graze early  
Fast to establish, very quick feed grown on farm and excellent hay option



## Bronco Forage Oats

*Avena sativa*

Crown rust resistant, late maturing forage oat

Seeding Rate	kg/ha
Dryland	30-50
High Rainfall/Irrigation	50-80

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Grazing and hay production

**Features & Benefits**  
Crown rust resistant  
Long season of production  
Excellent warm soil emergence  
Flexible option when season extends



## Severn

*Triticum aestivum*

Awnless winter wheat

**Usage**  
An early plant option for winter and spring grazing, hay and silage production

**Features & Benefits**  
Good disease resistance package  
Strong straw strength with excellent standability  
Dense tillering  
Grain quality is classified as feed  
Excellent forage yields  
Can be planted early  
Improved weed control options compared to oats





## It makes Kraken lambs

**Justin Dillon of McGregor Gourlay, Croppa Creek in New South Wales, had sold and grown Moby Forage Barley in the past. Mr. Dillon decided to test the claims made about S&W Seed Company's Kraken Forage Barley, sowing a paddock in autumn for his sheep to graze and lambs to be fattened.**

Kraken is an awnless white seeded Two-row forage barley that replaced Moby Forage Barley in the S&W portfolio. Kraken was released in autumn 2021 and tested alongside Moby with impressive results. It displayed the same quick establishment and excellent early vigour, making Kraken a direct replacement. Observations from the field and in trials indicate that Kraken is slightly later to head emergence than Moby and displays better leaf disease resistance, providing more green leaf for longer into the season.

Despite being a quick forage option, when well managed with favourable seasonal conditions and appropriate stocking rates, extended grazing periods can be achieved, as Mr. Dillon demonstrated. The awnless characteristic means the stock will still graze Kraken once head emergence occurs.

The ten-hectare block was sown on the 1st of June, and the sheep were introduced in August.

"It got away from them originally, but I left them on there, and they eventually got on top of it," Mr. Dillon noted.

The last of the 150 sheep were finally removed at the start of November. "It just kept coming back," commented Mr. Dillon.

The lambs were introduced at approximately 30 kilograms, removed when they reached 58 kilograms, and sold through the local sale yards. He topped the market twice.

The agent asked, "What they'd been fed on?"

"They were Kraken lambs, I told him." Mr. Dillon quipped.

**Above**  
Kraken lambs top the sales at \$320 per head after feeding on Kraken Forage Barley

**“  
It got away from them originally, but I left them on there, and they eventually got on top of it...It just kept coming back.**

**Justin Dillon  
Croppa Creek, NSW**



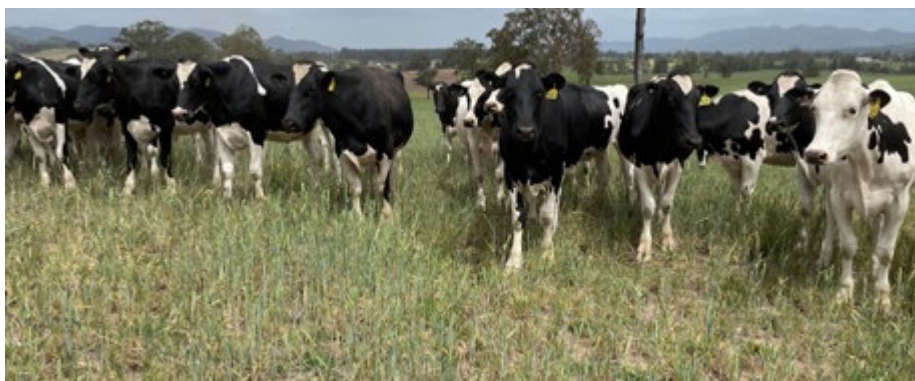


Above  
Peter Gibbs,  
S&W Production  
Manager, Pasture  
Seed Crops -  
Australia

# Severn - an excellent option for grazing, hay and silage

When it comes to winter forage options, winter wheat remains a popular choice. It provides an opportunity to sow early in the window without the risk of the crop running to head because of a warm, dry autumn. Winter wheats need vernalisation to become reproductive and produce a grain head. Severn is an awnless, winter wheat with a dense tillering habit, with a tall final plant height, after stem elongation, making it an ideal choice for grazing, hay, and silage.

Depending on seasonal conditions and sowing time, Severn can be grazed multiple times before terminating the crop at the end of spring. It can be grazed then locked up and cut for hay late or, due to its long growing window, can be cut for silage in late winter then hay or silage in spring. Because of these characteristics and its leaf disease resistance, including demonstrated resistance to the new eastern stripe rust pathotype, Severn is an excellent choice for grazing, hay, silage, and potentially harvest for feed grain. Dairy farmer Chris Maslan, from Gloucester said, "Winter wheat allows me to sow early onto soil moisture in fallowed country," and "it's just got more guts than the ryegrass early on. The cows will usually do half a litre better (of milk production) when they go on the wheat." In previous years, Chris has used S&W Bennett winter wheat; this season, he planted Severn in conjunction with Bennett, and was pleased with the results, "as you can see there's nothing left of the wheat."



Above  
Heifers grazing out the last of the winter wheat in  
October - Gloucester, NSW



“

**The cows will usually do half a litre better (of milk production) when they go on wheat.**

Chris Maslan  
Gloucester, NSW



# SEVERN WHEAT

Severn is a tall, awnless, quick winter variety, adaptable to a wide range of environmental conditions. Its winter habit requires vernalisation so is not suitable for late sowing in warmer environments for hay and grain production.

Severn performs best when planted early in the sowing window with favourable moisture and nutrition, allowing you to maximise its winter habit.

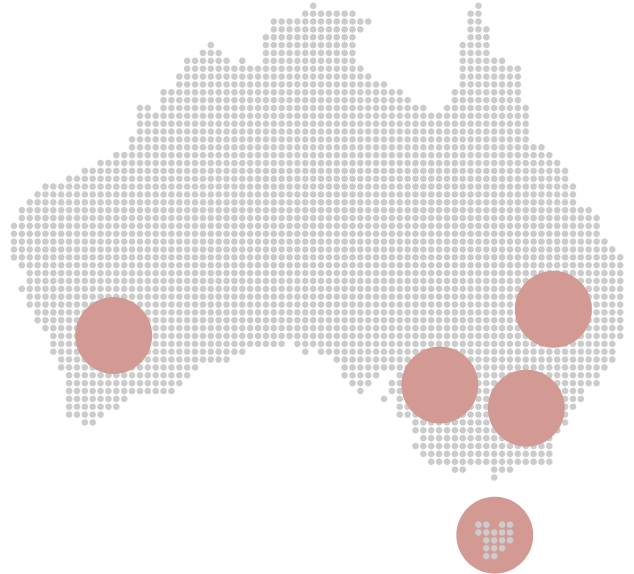
Dense, early tillering habit and good regrowth potential provides quality forage for grazing.

Currently resistant-moderately resistant to stripe rust pathotype affecting other varieties.

Tall final plant height making it suitable for hay and silage in spring.

Excellent standability due to straw strength provides the option of harvesting Severn for white feed quality grain.

Severn provides flexibility, when sown early, with the possibility of combination of grazing, and/or silage, hay or feed grain harvest at maturity.



## Ratings

Early sowing



Tillering



Maturity



Recovery from grazing



Forage yield



Animal performance



Rating scale: 1-9

1 - not recommended

9 - excellent

## Planting Guide

New South Wales, Victoria, Tasmania, South Australia and Western Australia.



Above  
Severn under pivot irrigation Bunnan, Hunter Region, NSW

## Features & Benefits



Good disease resistance package



Grain quality is classified as feed



Strong straw strength with excellent standability



Excellent forage yields

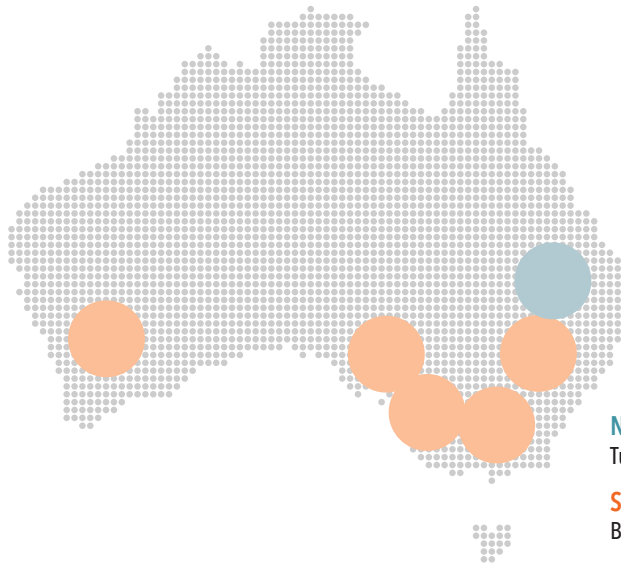


Dense tillering



Improved weed control options compared to oats

# WINTER CEREALS



## Northern Regions

Tull

## Southern Regions

Bennett, Severn, Pascal and Delegate



### Delegate

*Triticum aestivum*

*Awned head type milling wheat suitable for early main season planting*

### Grain Quality

Undergoing final milling classification

### Usage

High yield

### Features & Benefits

Mid to long spring wheat best suited to southern NSW  
 Good performance in SW Vic & southern NSW  
 Excellent Stripe rust resistance  
 Good harvestability  
 Undergoing final milling quality assessment

## Planting Guide



### Autumn

Delegate, Bennett, Severn, Pascal and Tull



### Winter

Pascal and Tull



### Bennett

*Triticum aestivum*

*Long season awnless white winter wheat suitable for grazing and grain production*

### Grain Quality

W: Feed | S & SE: ASW | N: Feed

### Usage

Forage and Grain

### Features & Benefits

Suited to high and medium rainfall zones  
 Ability to be planted early in the sowing window due to its strong winter habit and stable flowering window  
 Provides alternative herbicide control options compared to oats and other forage crops  
 Excellent yield potential under favourable conditions



### Severn

*Triticum aestivum*

*Awnless, white, quick winter wheat suitable for grazing, hay, silage and feed grain production*

### Grain Quality

S: Feed

### Usage

Grazing, silage and hay or grain

### Features & Benefits

Good disease package with strong straw strength and excellent standability  
 Early sowing forage option due to dense early tillering and winter habit  
 Excellent forage and grain yields  
 Flexible management for forage or grain options



### Pascal

*Triticum aestivum*

*Awned long spring milling wheat*

### Grain Quality

W, S & SE: APW | N: AH

### Usage

Grain

### Features & Benefits

Good Powdery Mildew tolerance  
 High yielding, early season  
 Industry leading pre-harvesting sprouting tolerance  
 Early sowing main season sowing opportunity with high yield potential  
 Excellent yield under irrigation with lower risk of weather damaged grain at harvest



### Tull

*Triticum aestivum*

*Compact plant and head type with good early vigour and moderate tillering*

### Grain Quality

SE: APH

### Usage

Grain

### Features & Benefits

High yielding, main season variety  
 Compact plant type with medium - short height  
 Develops a glaucous leaf appearance from early booting  
 Excellent Stripe rust resistance  
 Good harvestability  
 Low risk of lodging due to plant architecture  
 Suited for irrigation





## Managing Bennett

Matt McRae, a specialist in Central Tablelands agronomy solutions has grown S&W Seed Company Australia's Bennett Milling Wheat over several seasons as a part of his mixed farming operations at Millthorpe near Orange in NSW.

Last season that experience paid dividends. "as you know the Bennett placed second in the inaugural 2020 Carcoar crop competition," Mr. McRae commented, "the judged yield estimate was 7.6 tonne per hectare. When we got the header in, about 250 tonnes of 11.6 percent protein grain was harvested from the 34 hectare paddock".

Backing up this success, Mr. McRae has achieved second place in the 2021 competition with an estimated seven tonnes per hectare yield potential.

The winning paddock in the 2021 Carcoar Crop competition was also Bennett, with an estimated yield potential of 7.8 tonnes per hectare.

Mr. McRae's Bennett was direct drilled on the 10th of April into a paddock fallowed out of pasture.

"It was wet; we had about 690mm in the fallow with 233mm in March before sowing. Bennett went in at 100 kilograms per hectare with 120 kilograms per hectare of fungicide treated starter fertilizer to give it early season protection," Mr McRae noted. Nitrogen as Urea was applied in June.

Managing the disease pressure in the crop required the application of aerial fungicides, one was applied in early September and a second in late October.

"Ideally, I would have grazed the Bennett before Z30, (first node), but the paddock conditions were very wet, and I would have had both animal and crop issues. Defoliation by grazing would have helped the disease management by reducing canopy density. The dense canopy certainly contributed to the rapid disease buildup when combined with the wet conditions requiring the fungicides in spring," remarked Mr. McRae.

The mild spring has drawn out the maturation of the paddock, so a final yield is not known at this stage.

"No, it's not ready yet. There's been more than 900 millimetres of in-crop rainfall so far so it's not in any hurry to finish," stated Mr. McRae.

"The crop is standing up quite well despite significant wind and rainfall during grain fill. The headlands are lying over in spots, but I think that's a good indicator that the balance between nutrition, plant density, time of sowing and disease pressure this season is about right."

*Matt McRae is the principal of McRae Ag Solutions, based at Millthorpe, near Orange NSW. His farming operation, between Millthorpe and Blainey is mixed farming including cattle and sheep, cropping and hay-making.*

Above  
Well managed Bennett standing despite the seasonal conditions in NSW

“  
**The winning paddock in the 2021 Carcoar crop competition was also Bennett, with an estimated yield potential of 7.8 tonne per hectare.**

Matt McRae  
Central Tablelands, NSW





Above  
Rehn Freebairn  
S&W Territory Manager, inspecting  
the growth of Studenica Vetch,  
Eyre Peninsula, SA

# Kickstart your wheat crop with Studenica

**Incorporating vetch into the cropping rotation has been a trifecta for Colin Fawcett, providing hay and grazing opportunities as well as its stubble being the ideal kickstart for a successful wheat crop.**

Colin's farm at Nullawil in the Southern Mallee region in Victoria, often grows a large area of vetch, mainly for hay. His usual variety is Timok, but he decided to sow a small area with Studenica this year to see where the new variety could fit in his operation.

Colin often grows barley, canola, lentils and field peas, with opportunistic wheat crops also included in his cropping rotation. Vetch is a great addition to this, as it's ideal for hay and grazing, plus the vetch stubbles provides an ideal base for a successful wheat crop thanks to the added nitrogen and organic matter left behind.

The Studenica was sown in early June at 33 kilograms per hectare.

"We sowed it over 30 hectares, sowing it light to see how it went and maximise the area sown," Colin said.

The light sowing rate paid off, with the Studenica taking off despite the very dry start across the Mallee region.

July brought some rain and "saved the season", with 25 millimeters one week, followed up the next week another 25 millimeters. This rainfall combined with a milder winter meant the crops took advantage of the moisture and kept growing.

The lack of rain meant disease pressure was quite low so only one fungicide was applied. Studenica is also tolerant to powdery mildew, powering on even in seasons with increased risk.

With seedling frost tolerance, the Studenica pushed through tough conditions with Colin noting "some really great winter bulk".

Studenica is an earlier maturing variety than Timok, and was in full flower by early September, despite the later sowing time. This makes it a great option for grazing, as it provides bulk when other vetches haven't quite kicked off in winter, and can also provide an early hay option in late sowing years.

Colin aims to cut his Timok for hay and harvest his Studenica paddock for seed. Impressed with the results, he will be increasing his Studenica sowing.

"I would be happy to include Studenica for probably half of our total vetch operation."



“  
With seedling frost tolerance, the Studenica pushed through tough conditions with Colin noting “some really great winter bulk”.

Colin Fawcett  
Nullawil, Vic



# STUDENICA VETCH

S&W Seed Company Studenica Vetch has the best early vigour of all existing common vetch varieties in Australia. In early growth stages, Studenica has medium to large leaves without anthocyanin, the plant is green (RHS group 139B) with narrow to medium leaves, it is early flowering (85-95 days from seeding) with white flowers, medium pod size, medium seed size, greyish seed testa and greyish/brown cotyledons.

## Main advantages

Studenica was bred for very low rainfall areas, and can be used similarly to other common vetch varieties for grain/seed, grazing, hay/silage or green manure. Studenica is particularly suited to shorter season areas where the growing season finishes sharply. It has superior winter growth when compared to existing common vetch varieties. Studenica is classified as a very early flowering and maturing variety, which results in earlier nodule development and nitrogen fixation for crops in rotations.

## Grazing

Studenica can be grazed at any time, from very early stages to maturity/harvesting and post-harvest. Grain from this variety can be used for ruminants without limit, like other common vetch varieties.

## Sowing time and rates

Studenica is an early flowering/maturity variety that provides increased flexibility in relation to sowing time. Optimal sowing rates are dependent on the end use target and rainfall. Higher rates are required for hay/silage, grazing and green manure and lower rates are used for grain/seed production. Seed size is on average comparable to Volga and seeding rates for different end uses should be similar to those used for Volga, see details in the 2018 Sowing Guide for South Australia. <https://grdc.com.au/2018SowingGuideSA>



## Planting Guide

New South Wales, Victoria, South Australia and Western Australia.

## Features & Benefits



Fantastic early vigour



Higher yield - limited moisture



Seedling frost tolerance



Late sowing allows for better weed control post season break



White flowers from 'Blanchefleur' parentage



High dry matter and grain yields in short season areas



Above  
Presto® Vetch



## Studenica Vetch

*Vicia sativa*

Latest release common vetch with seedling frost tolerance

**Seeding Rate**                      **kg/ha**  
Dryland                                      30-45

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Grazing, hay and grain

**Features & Benefits**  
Fantastic early vigour  
Seedling frost tolerance  
White flowers from 'Blanchefleur' parentage  
Can be sown late due to seedling frost tolerance  
Late sowing allows for better weed control post season break  
High dry matter and grain yields in short season areas



## Timok Vetch

*Vicia sativa*

All-purpose common vetch

**Seeding Rate**                      **kg/ha**  
Dryland                                      30-45

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Grazing, hay and grain

**Features & Benefits**  
Maturity between Rasina and Morava  
High yield and rust resistance  
Very good vigour at flowering  
Early dry matter production in short season environments  
Excels even in low rainfall situations  
High forage quality, ideal feed for livestock operations



## Presto® Purple Vetch

*Vicia benghalensis*

Very early maturing purple vetch

**Seeding Rate**                      **kg/ha**  
Dryland                                      30-45

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Grazing, hay and grain

**Features & Benefits**  
Earliest maturing purple vetch option  
Quick emergence and forage production  
Approx 35 days earlier than Popany  
Good winter growth  
Excellent quality legume for dry matter production  
High nitrogen fixation potential for a short season





# Livestock reaching new performance levels

**For Phil Combe, a mixed enterprise farmer just south of Crystal Brook in the Mid North of SA, the new Timok vetch plays a huge role in the future profitability of his farm moving forward.**

Phil farms with his two sons Will and Campbell, their enterprise consists of a cropping rotation as well as a self-replacing 1,000 head merino flock. For years Phil has grown vetch, "Vetch has been

an important part of our farming system, we use it as a break crop and as feed for our livestock" Phil explained.

Previously, other varieties of vetch were used but their hard-seeded nature and low winter vigour allowed room for improvement. This season 24 hectares was sown to Timok late in the program at 40 kilograms per hectare, which will be harvested. "The Timok has been very impressive, it will be a good fit for our business, replacing the current variety Rasina" declared Phil.

In next year's rotation Timok will be sown with a companion cereal for early feed. This year the Timok exhibited good winter growth competing with weeds achieving canopy closure before the other varieties "the benefit is there for everyone to see" said Phil. "We can clean our grass weeds setting us up for next year's crop, we are improving soil fertility fixating N as well as maintaining condition of our stock." Phil also mentioned intent to investigate Timok hay as a replacement option to plug the autumn feed gap "It allows us to explore more alternatives given the feed we can now grow".



**Above**  
Timok Vetch at Crystal Brook, SA  
**Below**  
Will Combe and father Phil Combe in a paddock of the new Timok Vetch at Crystal Brook

**“  
The Timok has been very impressive, it will be a good fit for our business, replacing the current variety Rasina.**

**Phil Combe  
Crystal Brook, SA**





Above  
Cattle for feedlots from  
autumn to late spring  
Below

Andrew Locke, Walcha, NSW

# Jivet - the complete performer

**Andrew (also known as "D A") and Polly Locke have two blocks of land in the Walcha district of NSW.**

With an altitude of 1100 metres, the farms receive good rainfall, but the cold winters restrict pasture growth if effort has not been put into developing improved pastures and fertilising them well.

The 900 hectare basalt farm breeds second-cross lambs in September, and they are finished, together with lambs from first-cross merinos born on the 600 hectare trap-soil farm, from weaning in mid-January. Lambs are sold from February to June at carcase weights of 20-25 kilograms.

For the past three years, they have been using Jivet annual ryegrass to graze and finish these lambs. "It's crucial for us to be able to get lambs onto these new pastures as soon as possible, and that the lambs grow quickly," says Andrew. "Jivet is so quick out of the ground, and that's what makes it so good."

The Jivet is planted mid-February and they are grazed within six weeks of drilling. "We stock at about 20 dry sheep equivalents (DSE) per hectare, and they are rotationally grazed, with some paddocks split with electric fences to

achieve high grazing efficiency. We get about 5-6 grazings through winter and early spring, so the carrying capacity is very good. Lambs do very well on Jivet and it's easy to manage."

With the lambs off the farm by spring, twin-bearing second-cross ewes are put on the Jivet paddocks for lambing, at a rate of 20 per hectare. "Jivet is perfect for lambing as the ewes milk well and their lambs grow quickly, due to the feed quality of Jivet."

"The Jivet is still growing quality feed in October, when the paddocks are sprayed out to kill vulpia (silver grass) before it seeds. If I didn't need to control the vulpia to reliably establish my perennial pasture in the following autumn, I'd love to keep grazing the Jivet throughout spring."

As well as the high production from lambs and ewes, Jivet performs a role as a break crop between old pasture and new perennial pastures. "We use the longer season tall fescue Tower, and this is used for finishing lambs over summer, and carrying ewes through winter and lambing."

The Locke family will continue using Jivet on their farms, "I'm just happy with how well it performs, and with our need for high quality feed, Jivet works well for us."



“  
**Jivet provides the perfect combination of winter feed production and fast growth in lambs for a New England farm.**

Andrew Locke  
Walcha, NSW



# JIVET TETRAPLOID ANNUAL RYEGRASS

Jivet Tetraploid Annual Ryegrass maximises winter and spring production, with the extra benefit of late spring quality and growth. Jivet is a high-performance annual ryegrass, combining rapid winter growth with extended feed quality and production in spring.

Jivet establishes rapidly and grows quickly over winter. It has good tolerance to grazing and fast recovery. This makes it the best-choice S&W ryegrass for maximising the amount of grazing achieved over winter.

The bonus that farmers appreciate is the late heading date and recovery from grazing in spring. This allows Jivet to keep providing grazing of leafy and high-quality pasture for many weeks after earlier varieties have slowed in growth and developed stems. The benefit to farmers is more meat and milk production, and higher yields and better quality in silage and hay crops.



## Jivet Tetraploid Annual Ryegrass

*Lolium multiflorum*/Westerwolds

*Tetraploid annual ryegrass that maximises winter and spring production, with the extra benefit of late spring quality and growth*

**Seeding Rate**            **kg/ha**  
Dryland                    10-15  
High Rainfall/Irrigation   25-30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Short-term winter and spring feed.

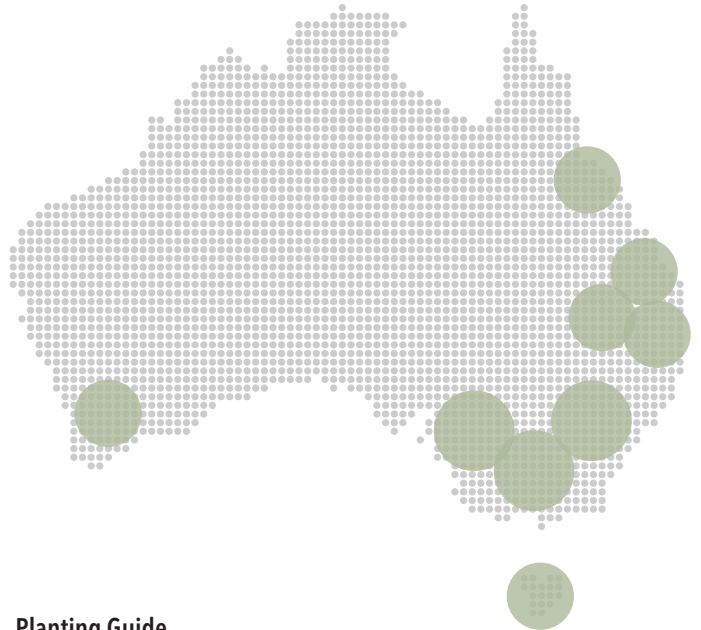
## Features & Benefits



Rapid establishment



Fast regrowth during winter



## Planting Guide

Queensland, New South Wales, Victoria, Tasmania, South Australia and Western Australia.

## Ratings

Persistence



Drought tolerance



Winter growth



Summer growth



Tolerance to low fertility soils



Animal performance



Rating scale: 1-9

1 - not recommended

9 - excellent



Extended spring growth



Heading date +18 days



## Tetrone Tetraploid Annual Ryegrass

*Lolium multiflorum/Westerwolds*

A mid-maturing tetraploid annual ryegrass with excellent seedling vigour, well suited to grazing and fodder production in the medium to lower rainfall environments

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	25-30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef, sheep, hay and annual pasture

**Features & Benefits**  
Excellent establishment vigour  
Low-cost winter feed production  
Quick recovery after grazing  
Heading date +5 days



## Jackpot Diploid Italian Ryegrass

*Lolium multiflorum*

A modern diploid Italian ryegrass bred for high winter and spring production with improved life span

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	20-25

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Short-term winter and spring feed.

**Features & Benefits**  
Rapid establishment  
Fast regrowth during winter  
High stock performance  
Heading date +22 days



## Mona Tetraploid Annual Ryegrass

*Lolium multiflorum*

A modern tetraploid Italian ryegrass bred for high winter and spring production with a long life span

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	25-30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Short-term winter and spring feed.

**Features & Benefits**  
Rapid establishment  
Fast regrowth during winter  
Extended spring growth  
Heading date +28 days



## Perun Tetraploid Festulolium

*Festulolium braunii*

A hybrid between fescue and Italian ryegrass bred for high winter and spring production and can survive for 2-3 years in moderate climates. Delivers excellent growth rates in animals.

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	15-20
High Rainfall/Irrigation	25-30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Medium-term winter and spring feed. Temperate, high rainfall zones.

**Features & Benefits**  
Fast regrowth during winter and spring  
Increased feed production over extended periods  
High stock performance  
Able to survive more than two years



## Perseus Tetraploid Festulolium

*Festulolium braunii*

A hybrid between Italian ryegrass and meadow fescue bred for high winter and spring production and a life span greater than one year

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	15-20
High Rainfall/Irrigation	25-30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Medium-term winter and spring feed. Temperate, high rainfall zones.

**Features & Benefits**  
Quick establishment  
Fast regrowth during winter and spring  
High stock performance  
Edge Endophyte



## Jeta Hybrid Tetraploid Long Rotation Ryegrass

*Lolium boucheanum*

A tetraploid hybrid between perennial and Italian ryegrass bred for high production and tiller density, with similar life span to perennial ryegrass

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	12-15
High Rainfall/Irrigation	25-30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef, sheep. Medium-term winter and spring feed. Temperate, high rainfall zones.

**Features & Benefits**  
Quick establishment  
Fast regrowth during winter and spring  
Edge Endophyte  
Heading date +10 days



## Valley® Diploid Perennial Ryegrass

*Lolium perenne*

A very early flowering (-17 days) perennial ryegrass of Kangaroo Valley germplasm, selected for excellent winter growth

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	8-14
High Rainfall/Irrigation	20-25

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Beef, sheep and perennial pasture

**Features & Benefits**  
Summer dormant  
Very early heading  
Suited to dry environments  
Heading date -17 days



## Drylander Diploid Perennial Ryegrass

*Lolium perenne*

A highly persistent perennial ryegrass grown only on dryland seed production paddocks to maintain its survivability

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	8-14
High Rainfall/Irrigation	20-25

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Beef, sheep and perennial pasture

**Features & Benefits**  
Good persistence  
Grazing tolerance  
Suited to marginal perennial ryegrass country  
Heading date -7 days





## Ansa Diploid Perennial Ryegrass

*Lolium perenne*

A diploid perennial ryegrass bred for high production and tiller density, resulting in the ideal combination of production and persistence in a ryegrass pasture

Seeding Rate	kg/ha
Dryland	10-15
High Rainfall/Irrigation	20-25

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Long-term feed production. Temperate, high rainfall zones.

**Features & Benefits**  
High animal performance  
Fast regrowth in all seasons  
Increased feed production throughout the year, especially winter and early spring  
Heading date +14 days



## Impact® Diploid Long Rotation Ryegrass

*Lolium perenne*

A highly reliable diploid perennial ryegrass that has proven to have excellent persistence and total feed production

Seeding Rate	kg/ha
Dryland	10-15
High Rainfall/Irrigation	20-25

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Long-term feed production. Temperate, high rainfall zones.

**Features & Benefits**  
Very late heading date  
Excellent persistence  
Maintains good pasture density for several years  
Heading date +21 days



## 24Seven Diploid Perennial Ryegrass

*Lolium perenne*

A diploid perennial ryegrass bred for high production and tiller density. Its very late heading date maximises seasonal production and feed quality.

Seeding Rate	kg/ha
Dryland	10-15
High Rainfall/Irrigation	20-25

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Long-term feed production. Temperate, high rainfall zones.

**Features & Benefits**  
High tiller density and persistence  
Excellent growth rates  
High stock performance  
Heading date +24 days



## Evans Tetraploid Perennial Ryegrass

*Lolium perenne*

A tetraploid perennial ryegrass bred for high production and tiller density, maximising animal production from ryegrass pasture

Seeding Rate	kg/ha
Dryland	10-15
High Rainfall/Irrigation	25-30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Long-term feed production. Temperate, high rainfall zones.

**Features & Benefits**  
High feed value  
Very high all-round production  
Maximises milk and meat production  
Edge Endophyte  
Heading date +25 days



## Tower Summer Active Tall Fescue

*Festuca arundinacea*

A tall fescue with the unique combination of high feed quality, easy management and proven persistence

Seeding Rate	kg/ha
Dryland	15-20
High Rainfall/Irrigation	30

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Dairy, beef and sheep. Long-term feed production. Temperate, high rainfall zones.

**Features & Benefits**  
Very late heading date  
High feed quality and ease of management  
Strong persistence  
High total production  
Protek™ Endophyte



## Origin Winter Active Tall Fescue

*Festuca arundinacea*

A drought tolerant Mediterranean tall fescue bred for excellent winter growth and summer dormancy, allowing it to persist in low summer-rainfall environments

Seeding Rate	kg/ha
Dryland	10-15
High Rainfall/Irrigation	20-25

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Beef and sheep. Lower-rainfall perennial pasture.

**Features & Benefits**  
Exceptional winter growth  
Truly summer-dormant  
Soft leaves  
Tolerant of climates with hot and dry summers



## Convoy® Continental Cocksfoot

*Dactylis glomerata*

A robust cocksfoot bred for high palatability and persistence in tough Australian conditions

Seeding Rate	kg/ha
Dryland	4-6
High Rainfall/Irrigation	6-10

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Beef, sheep and long-term pasture

**Features & Benefits**  
Early-mid maturity  
Excellent tolerance to acid soils  
Tolerance of light and infertile soils  
Summer growth



## Australis® Australian Phalaris

*Phalaris aquatica*

An improved variety selected from Australian phalaris for persistence and productivity

Seeding Rate	kg/ha
Dryland	3-5
High Rainfall/Irrigation	6-8

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Beef, sheep and long-term pasture

**Features & Benefits**  
Very persistent  
Drought tolerant  
Reliable persistence  
Summer growth



# Latest release - S&W Enduromax®

Below  
Peter Gibbs, S&W Production Manager,  
Pasture Seed Crops - Australia

**Enduromax® Balansa Clover is the latest release out of S&W Seed Company Australia's rapidly evolving product portfolio.**

Enduromax®, the newest Balansa on the Australian market is an exciting development for low to mid rainfall areas as well as early maturing environments. Enduromax® exhibits exceptional seedling vigour adapting to late breaks or conditions that can challenge early legume growth. Enduromax® displays fantastic cold season growth during winter, once again capitalizing on variable rainfall patterns in temperate Australia.

Enduromax® Balansa Clover has prolific spring growth and its exceptional seed set creates flexibility for livestock or mixed enterprise producers alike. As reliable as anything, Enduromax® sets large volumes of seed creating a seed bank flush with regenerative potential.

Adapted to a large range of soil types, Enduromax® tolerates soils with variable texture from light to heavy, pH fluctuations tolerating pH water 5.4 to 9.0 and even mild salinity tolerance. With good frost tolerance, Enduromax® can be sown in the most inhospitable conditions tolerating levels of waterlogging or clover scorch. Enduromax® is perfectly suited for hay enterprises wanting to effectively add quality



and protein to their cut. Particularly adapted for grazing Enduromax® compliments agronomically engineered seed blends to perform every time adding superior forage with high nutritive value with high protein content.

Designed for regions with often early season and low to medium rainfall Enduromax® is the pasture legume of choice for producers looking for high levels of hard seed set to guarantee legume and pasture persistence. Enduromax® is a huge addition to any pasture, its forage quality is unparalleled, and its agronomic diversity makes weed control, soil variation and pasture usage type a carefree decision.

“  
**Enduromax® Balansa exhibits exceptional seedling vigour and prolific spring growth.**

Rehn Freebairn  
S&W Territory Manager  
Eyre Peninsula & WA



# ENDUROMAX<sup>®</sup> BALANSA CLOVER

Persistence, drought tolerance and versatility are just a few traits possessed by the all new Enduromax<sup>®</sup> Balansa Clover. Selected for exceptional winter/spring production and high-quality forage, Enduromax<sup>®</sup> is the key to improving your pastures in low to medium rainfall environments.

## Maximum Value and Flexibility with Enduromax<sup>®</sup> Balansa Clover

For producers seeking longevity in their seed investment, Enduromax<sup>®</sup> Balansa Clover is the pasture legume of choice. It has high levels of hard seed set, which guarantees long-term legume and pasture regeneration, and thrives in areas where other varieties may falter.

Clover is a tool that every producer keeps in their back pocket for feed production. Its nutritional benefits provide livestock with excellent green or dry feed options, depending on its life cycle stage and production intent. It also has the additional benefit of nitrogen-fixing capabilities that make it a great companion plant in any pasture blend.

Enduromax<sup>®</sup> Balansa Clover is a new release balansa on the Australian market – and it does not disappoint. Enduromax<sup>®</sup> is becoming a fast favourite in areas with mid to low rainfall. It displays fantastic cold season growth during winter, capitalising on the variable rainfall patterns that dominate the temperate regions of Australia.

Flexibility abounds with Enduromax<sup>®</sup> – its prolific spring growth and exceptional seed formation create agile opportunities for livestock and mixed enterprise producers through its reliably large seed set that creates a bank flush with regenerative potential. It demonstrates excellent nutritive value with high protein content for those producers who are looking to use Enduromax<sup>®</sup> for grazing or hay production.

The flexibility continues with Enduromax<sup>®</sup>'s ability to tolerate a large range of soil types, pH levels, and textures. It even demonstrates a mild tolerance to salinity. It can be sown in the most inhospitable of conditions as it has shown a capability to tolerate frosts, waterlogging, and clover scorch. There is not much that Mother Nature can throw at it that Enduromax<sup>®</sup> cannot handle!



## Planting Guide

Queensland, New South Wales, Victoria, South Australia and Western Australia.

## Planting Guide



**Autumn**  
Plant in Autumn



**Spring**  
Plant in Spring

## Features & Benefits



Earliest balansa clover variety



Excellent winter feed production



Very high hard seed levels



Regenerates and survives in as little as 200mm rainfall zones



Good early winter growth compared to other balansa clover varieties



High nitrogen fixation

# CLOVER & PASTURE LEGUMES

## BALANSA CLOVERS



### Enduromax® Balansa Clover

Trifolium michelianum

Early maturing balansa with elite winter production

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	4-6
High Rainfall/Irrigation	8-12

#### Seed Treatment

Goldstrike®

#### Usage

Regenerating annual pastures

#### Features & Benefits

Earliest balansa clover variety  
Very high hard seed levels  
Good early winter growth compared to other balansa clover varieties  
Reliable hard seed base for long term regenerating pastures



### Border Balansa Clover

Trifolium michelianum

Mid maturity balansa with excellent persistence

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	4-6
High Rainfall/Irrigation	8-12

#### Seed Treatment

Goldstrike®

#### Usage

Grazing and hay production

#### Features & Benefits

Heading date similar to Paradana  
High hard seed levels  
Waterlogging tolerant  
Excellent regenerating annual for late season environments with wet winters  
Highly digestible feed source



### Longhaul® Balansa Clover

Trifolium michelianum

Very late maturing balansa for maximum yield potential

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	4-6
High Rainfall/Irrigation	8-12

#### Seed Treatment

Goldstrike®

#### Usage

Grazing and hay production

#### Features & Benefits

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

## RED CLOVERS



### Renegade Red Clover

Trifolium pratense

Big yielding, short-term red clover

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	3-4
High Rainfall/Irrigation	5-8

#### Seed Treatment

Goldstrike®

#### Usage

Grazing and hay production

#### Features & Benefits

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



### Rajah Red Clover

Trifolium pratense

Low growing point red clover, highly persistent and tolerant to grazing

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	3-4
High Rainfall/Irrigation	5-8

#### Seed Treatment

Goldstrike®

#### Usage

Permanent pasture grazing

#### Features & Benefits

Intermediate to late flowering variety  
Very low Oestrogen  
Low growing point  
Flexible for grazing or fodder conservation

## PERSIAN CLOVERS



### SARDI® Persian Clover

Trifolium resupinatum

Hard seeded type with mid maturity

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	5-8
High Rainfall/Irrigation	10-15

#### Seed Treatment

Goldstrike®

#### Usage

Regenerating annual pastures

#### Features & Benefits

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



### Turbo Persian Clover

Trifolium resupinatum

sub species majus

Late season persian with excellent recovery from grazing or harvest

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	6-10
High Rainfall/Irrigation	10-15

#### Seed Treatment

Goldstrike®

#### Usage

Grazing and hay production

#### Features & Benefits

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



# CLOVER & PASTURE LEGUMES

## SUB CLOVERS



### Dalsa® Sub Clover

Trifolium subterranean

Early maturity conventional sub with great early vigour

Seeding Rate	kg/ha
Dryland	8-14
High Rainfall/Irrigation	15-20

**Seed Treatment**  
Goldstrike LongLife®

**Usage**  
Regenerating annual pastures

**Features & Benefits**  
Early maturing with high levels of hard seed  
Strong burr burial strength  
Excellent base legume for regenerating pasture  
Reliable seed set in early seasons, high hard seed for drought proofing



### Hatrik® Sub Clover

Trifolium subterranean  
sub species yanninicum

Mid maturity white seeded sub clover with waterlogging tolerance

Seeding Rate	kg/ha
Dryland	8-14
High Rainfall/Irrigation	15-20

**Seed Treatment**  
Goldstrike LongLife®

**Usage**  
Regenerating annual pastures

**Features & Benefits**  
White seeded 'yanninicum' type  
Excellent tolerance to waterlogging  
Persistent in high rainfall and irrigated environments with particularly wet winters  
Versatile regenerating variety



### Clare2® Sub Clover

Trifolium subterranean  
sub species brachycalycinum

Mid maturity, large leafy 'brachy' type sub clover

Seeding Rate	kg/ha
Dryland	8-14
High Rainfall/Irrigation	15-20

**Seed Treatment**  
Goldstrike LongLife®

**Usage**  
Grazing and hay production

**Features & Benefits**  
Large leaf 'brachycalycinum' type  
Mid maturity variety  
Excellent early vigour  
Adaptable to a range of soil types



### Ovaflow® Sub Clover

Trifolium subterranean

Late maturity conventional sub for high yields in regenerating pastures

Seeding Rate	kg/ha
Dryland	8-14
High Rainfall/Irrigation	15-20

**Seed Treatment**  
Goldstrike LongLife®

**Usage**  
Regenerating annual pastures

**Features & Benefits**  
Late maturing conventional sub clover  
Good burr burial strength  
Tolerant to hard levels of grazing  
High yield potential in late season environments

## WHITE CLOVERS



### Casper White Clover

Trifolium repens

Early maturing variety with large leaf size

Seeding Rate	kg/ha
Dryland	3-4
High Rainfall/Irrigation	5-8

**Seed Treatment**  
Goldstrike®

**Usage**  
Permanent pasture grazing

**Features & Benefits**  
Early maturing variety  
Large leaf trait  
Excellent permanent pasture option  
Quick recovery from grazing, suits rotational grazing systems with a grass base



### Jumbo White Clover

Trifolium repens

Late maturing 'Ladino' type

Seeding Rate	kg/ha
Dryland	3-4
High Rainfall/Irrigation	5-8

**Seed Treatment**  
Goldstrike®

**Usage**  
Grazing and hay production

**Features & Benefits**  
'Ladino' type with large leaves  
Excellent recovery from grazing  
High heat tolerance gives 'year-round' production  
Highly digestible feed for elite animal performance



### Riesling White Clover

Trifolium repens

Early maturing variety with high stolon density

Seeding Rate	kg/ha
Dryland	3-4
High Rainfall/Irrigation	5-8

**Seed Treatment**  
Goldstrike®

**Usage**  
Permanent pasture grazing

**Features & Benefits**  
High stolon density  
Strong root system  
Highly persistent in higher rainfall environments  
Highly digestible forage

# CLOVER & PASTURE LEGUMES

## OTHER CLOVERS



### SARDI Rose Clover

*Trifolium hirtum*

High persistent rose clover with improved hard seeds

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	5-8
High Rainfall/Irrigation	10-15

#### Seed Treatment

Goldstrike®

#### Usage

Regenerating annual pastures

#### Features & Benefits

Highest hard seed levels of any rose clover  
Pioneering species  
Tolerant to mildly acidic soils  
Persists and regenerates in soils with low fertility



### Zulumax® Arrowleaf Clover

*Trifolium vesiculosum*

Long season variety with high yield potential

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	6-10
High Rainfall/Irrigation	10-15

#### Seed Treatment

Goldstrike®

#### Usage

Grazing and hay production

#### Features & Benefits

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



### Alexandria® Berseem Clover

*Trifolium alexandrinum*

True multi-cut berseem clover

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	8-10
High Rainfall/Irrigation	10-15

#### Seed Treatment

Goldstrike®

#### Usage

True multi-cut berseem clover

#### Features & Benefits

Quick establishment vigour  
Multiple cut variety  
Low bloat potential  
High forage yield potential



### Bartolo Bladder Clover

*Trifolium spumosum*

Adaptable over wide soils types, very high levels of hard seed

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	8-14
High Rainfall/Irrigation	15-20

#### Seed Treatment

Goldstrike®

#### Usage

Regenerating annual pastures

#### Features & Benefits

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

## FEATURES OF MEDICS

Medics are self-regenerating, annual legumes that grow in autumn, winter and spring above 250 millimetres of rainfall.

They are best suited to crop rotations on neutral to alkaline soils. Both freshly growing forage and the seed pods produced by annual medics are a high protein source. Both protein sources allow grazing animals to sustain good levels of wool and meat production over the winter and summer months.

Nitrogen fixation has a direct flow on effect to future cropping and pasture rotations.

Annual medics are extremely hard seeded, therefore if established successfully and allowed to seed down, regeneration in subsequent years is extremely good. Their hard seeded nature also provides excellent protection against drought and false breaks.

- Can be sown in to previous crop stubble prior to autumn break.
- Medics are a proven partner to ryegrass. Utilised widely throughout the dairy, beef and sheep industry as they offer excellent winter production superior to other pasture legumes.

- They grow best on neutral to alkaline soils - soils with pH 6.0 to 8.5.
- Medics are capable of regenerating each year without reseeding. Seed pods lay dormant on top of the soil during summer. Seeds then germinate and produce pasture in autumn following the season break. Medics aid in maintaining and increasing soil health and fertility via nitrogen fixation, and biomass production which assist in building organic matter.
- Forage production from medics is high in, and maintains protein, whether being utilised for grazing, silage, or forage production.
- Drought tolerance and persistence over a wide range of soils and rainfall areas. Medics can germinate, grow, flower and set seed on as little as 80 millimetres of rainfall, spread over two to three months.
- Annual medics are sown with cereal crops in cropping rotations. However, they can also be sown on their own for fodder production.



Cavalier Spineless Burr



Seraph Strand



Caliph Barrel



Silver Snail



Bindaroo Button





Above  
Windrowing Seraph for hay at Templers, SA

Increased winter feed, superior feed quality and enhanced weed control is now a reality with the new release from the S&W/SARDI medic breeding program. Seraph Strand Medic is an Australian first exhibiting SU tolerance, powdery mildew tolerance all with spineless burrs.



## Seraph Strand Medic

*Medicago littoralis*

*Powdery Mildew resistant, SU residue tolerant strand medic*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	15-20

**Seed Treatment**  
Goldstrike LongLife®

**Usage**  
Regenerating annual pastures

**Features & Benefits**  
Excellent early vigour and winter production  
Resistant to SU Herbicide and Powdery Mildew  
Good adaptation to alkaline sandy loam in low rainfall  
Palatable at all growth stages



## Planting Guide

Victoria, Tasmania South Australia and Western Australia.



**Autumn**  
Seraph Strand Medic



Above  
Rehn Freebairn, S&W Territory  
Manager, inspecting a Seraph Strand  
Medic pasture at Freeling, SA

# Seraph - a unique medic variety

**Located at Witera and Calca on South Australia's West Coast, Craig Kelsh and his family run a comprehensive farming operation.**

His 7,500ha is comprised of an intensive cropping business as well as a complimentary livestock operation made up of 8,000 merino and cross bred sheep. Soils in this region are comprised of heavy red loam over clay, grey calcareous sands and can be occasionally saline. Local trials of the new Seraph Strand medic were impressive adapting to variable soil types and inconsistent spring finishes.

Seraph's breeding makes it a unique medic variety considering all aspect of cropping and livestock production with new traits in disease resistance, chemical tolerance, soil adaptability and reduced wool contamination. "I want a good, newer medic to suit all our country and our rotations." explained Mr. Kelsh.

"I had a paddock that has some salt so I got some Seraph, we direct drilled it with a late April dry sowing. It went down at about 5 kilograms per hectare. It came up really good, 10 days after the rains the rows were all coming up. It got away pretty well; we could have had sheep in June grazing it." Mr. Kelsh said.

Seraph's suitability is not only related to livestock production, "Around Calca the medics are the break crop, they're a tough break crop, give good nitrogen fixation so having the ability to go summer spraying with SU to clean up the lincoln weed is pretty good. That's the trick to this country, is good summer weed control." Mr. Kelsh explained.

In addition to weed control, Mr. Kelsh also saw potential for improved forage quality and disease resistance, "We occasionally get powdery mildew, even by the coast. This year we got hit by it too in some of our old medics it was all silver so it's good not having to worry about that." said Mr. Kelsh.

With only a paddock to start, Mr. Kelsh has plans to spread Seraph onto other areas of his farm to promote stronger medic bases, "It suits the country well, it's got the mildew and the SU tolerance I thought that's a good fit for us, there is no issues with clover burr in wool so it works really well in my system, it's the one to go with." mentioned.

“  
**There is no issues with clover burr in wool so it works really well in my system, it's the one to go with.**

**Craig Kelsh  
Witera, SA**



# CLOVER & PASTURE LEGUMES

## MEDICS



### Emperor Barrel Medic

*Medicago truncatula*

*Late maturing barrel medic with Powdery Mildew resistance*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	15-20

**Seed Treatment**

Goldstrike LongLife®

**Usage**

Grazing and hay production

**Features & Benefits**

Powdery Mildew resistant  
Product developed in collaboration with MLA, S&W & SARDI  
Excellent dry matter production and grazing recovery  
Good grazing tolerance



### Penfield Barrel Medic

*Medicago truncatula*

*Early maturing spineless barrel medic with SU herbicide residue tolerance*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	15-20

**Seed Treatment**

Goldstrike LongLife®

**Usage**

Grazing and hay production

**Features & Benefits**

Spineless barrel medic  
SU herbicide residue tolerance  
Product developed in collaboration with MLA, S&W & SARDI  
First medic variety with elite combination of spineless trait and SU herbicide residue tolerance in a barrel medic



### Bindaroo Button Medic

*Medicago orbicularis*

*A prostrate growing medic with high hard seeds and persistence*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	15-20

**Seed Treatment**

Goldstrike LongLife®

**Usage**

Regenerating annual pastures

**Features & Benefits**

Button shaped seed pod  
Ultra high hard seed level  
Semi-prostrate growth habit



### Caliph Barrel Medic

*Medicago truncatula*

*Very early maturing aphid resistant barrel medic*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	15-20

**Seed Treatment**

Goldstrike LongLife®

**Usage**

Regenerating annual pastures

**Features & Benefits**

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

“

**Emperor and Penfield are products of the MLA sponsored medic breeding program in collaboration with SARDI as the contract breeder.**

**These products will replace Caliph and Lynx.**

**Dennis Jury  
S&W Senior Vice-President  
Supply Chain International**



### Cavalier Spineless Burr Medic

*Medicago polymorpha var brevispina*

*Highly adaptable annual medic with versatile uses*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	15-20

**Seed Treatment**

Goldstrike LongLife®

**Usage**

Regenerating annual pastures

**Features & Benefits**

Vigorous dry matter production  
Spineless burr shaped seed pod  
Highly adaptable across a wide variety of soil types  
Tolerant to mild soil pH, grows well on all soil types



### Seraph Strand Medic

*Medicago littoralis*

*Powdery Mildew resistant, SU residue tolerant strand medic*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	10-15
High Rainfall/Irrigation	15-20

**Seed Treatment**

Goldstrike LongLife®

**Usage**

Regenerating annual pastures

**Features & Benefits**

Excellent early vigour and winter production  
Resistant to SU Herbicide and Powdery Mildew  
Good adaptation to alkaline sandy loam in low rainfall  
Palatable at all growth stages



### Silver Snail Medic

*Medicago scutellata*

*Snail medic variety with excellent vigour and persistence*

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	15-18
High Rainfall/Irrigation	18-25

**Seed Treatment**

Goldstrike LongLife®

**Usage**

Regenerating annual pastures

**Features & Benefits**

Early maturing  
'Snail' shaped seed pod  
Erect growth habit with very early bulk  
Excellent hay option  
Some tolerance to lower pH soils



Above  
Sheep in SW6330 at Frances, SA  
Below  
Geoff Hose Cressbrook Creek  
Chaff Toogoolawah, Qld

# SW6330 rises above tough conditions

**Extreme weather conditions have put SW6330 lucerne to the test, but the new variety has risen to the challenge.**

Producing chaff for a Queensland-wide market means quality is at the top of the list for Geoff and Angela Hose of Cressbrook Creek Chaff at Toogoolawah and they have been successfully growing Q75® lucerne for many years.

“Growing high quality lucerne consistently is the key to making a premium lucerne chaff product that end users are happy with,” Geoff said.

High leaf retention traits are a key factor in variety selection, ensuring lucerne quality is maintained during the frequent volatile weather conditions experienced in the northern regions of Australia.

While Geoff has been pleased with the consistent and robust Q75®, he is committed to trialling new varieties with very high quality traits and in April 2021 the new SW6330 was sown at 25 kilograms per hectare under irrigation.

The crop experienced very dry conditions during establishment through to the first and second cuts, then extreme rainfall conditions through November and December.

Despite the tough conditions, SW6330 is producing the premium product Geoff and Angela are looking for.

“With the dry start it seemed to hang on and yield really well considering the season,” Geoff explained.

“We’re only on the third cut but it’s certainly starting to show its true colours and responds really well after being cut.

“When we are cutting it, we noticed heaps of leaf retention and it cuts really nice chaff.”

With a high pest and disease rating and high leaf to stem ratio, SW6330 has ticked a few more boxes for Geoff.

With more favourable conditions predicted and increased irrigation supply, Geoff is looking forward to continuing to evaluate SW6330 over the next two to three years.



“**When we are cutting it, we noticed heaps of leaf retention and it cuts really nice chaff.**”

Geoff Hose  
Toogoolawah, Qld



# SW6330 LUCERNE

SW6330 is a high yielding and high quality, moderately active lucerne. SW6330 has an increased level of resistance in its pest and disease profile compared to Aurora. It recovers rapidly from grazing and cutting and has shown excellent persistence. SW6330 is well-suited for all regions where dormancy 6-7 varieties are grown.

## Ratings:

### Winter Activity



### Spotted Alfalfa Aphid



### Blue Green Aphid



### Pea Aphid



### Phytophthora Root Rot



### Anthracnose



### Bacterial Wilt



### Fusarium Wilt



### Stem Nematode



### Root Knot Nematode



### Winter Activity rating scale:

Highly Winter Active = 8-10, Winter Active = 6-7, Semi-winter Dormant = 4-5, Winter Dormant = 0-3

### Pest & Disease rating scale:

High Resistance (HR) = >50%, Resistance (R) = 31-50%, Moderate Resistance (MR) = 15-30%,

Low Resistance (LR) = 7-14%, Susceptible (S) = 0-6%

## Planting Guide



### Autumn

Ideal sowing window in autumn is in April with warm soil temperature and available soil moisture



### Spring

Ideal sowing window in spring is in August with soil temperatures rising and available soil moisture

## Features & Benefits



High pest and disease rating



High yielding



Moderately Winter Active



Recovers rapidly after cutting and grazing



High leaf to stem ratio



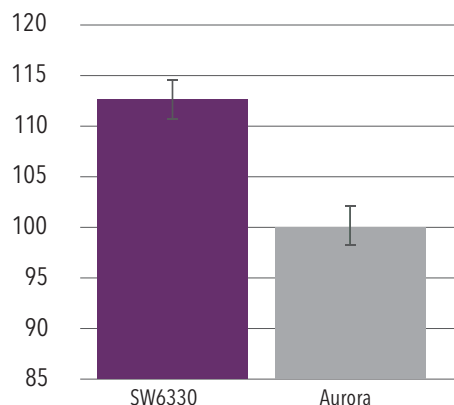
High stand persistence



## Planting Guide

Queensland, New South Wales, Victoria, Tasmania, South Australia and Western Australia.

Multi year, Multi Site Lucerne dry matter production, kg DM/ha expressed as % of check variety Aurora



No. Trials: 4  
No. Years: 4  
CV: 13.68  
LSD: 0.61

## Jo Williams - Lucerne Research & Development

In 2010, after five years with SARDI on the Eyre Peninsula running the NVT trials, Jo Williams returned home to her family farm with her husband at Field in the upper southeast of South Australia. At the same time, she began work for S&W Seed Company Australia in lucerne research and development. Over the last 11 years, this role has progressed into lucerne breeder for the Australian program.

The global lucerne-breeding program at S&W is heavily focused on producing forage varieties with market leading yields and quality in conjunction with high resistance across the pest and disease profiles. The breeding program is also focused on a range of traits, including salt tolerance, low lignin and high-quality varieties. Having a global program, allows the breeders at S&W to take advantage of the two growing seasons in both the northern and southern hemispheres each year. This means that they can concurrently run the screening trials globally. Jo elaborates on the benefits of simultaneous breeding programs, "For the farmer this means quicker turn-around of material going from the evaluation stage to the commercial stage - Best genetics, faster."

Plant selections are made across all major lucerne growing regions globally. These selections are then crossed to produce F1 seed, the first generation of seed of a new variety. This breeding line is then entered into all screening programs, including, dormancy, forage, seed, salt, pest and disease trials. Once a breeding line has shown to meet the high standards that all S&W lucerne varieties must achieve to progress in the program, the breeding line is then advanced to the seed build up stage and then onto commercialisation. This process can take up to seven years to ensure that all varieties produced from the S&W breeding program continue to be leaders in the marketplace.



Above  
Jo Williams - S&W Plant Breeder, Lucerne

There are some very exciting new products that will shortly be available to domestic growers from the global breeding program. These include varieties with a range of dormancy from 5-10, catering for all domestic lucerne growing regions and end use systems, whether it be cut and carry or grazing. These varieties have been extensively screened through the forage yield trials as well as the pest and disease program, producing elite, high quality lucerne varieties. Jo continues to enjoy the challenge of breeding lucerne varieties that fit a global marketplace with exceptional yields and quality. She gains great joy and satisfaction from seeing the S&W lucerne varieties performing well for growers and adding to the profitability of their farming businesses.



### SW9720 Lucerne

*Medicago sativa*

*Outstanding yields and quality under salty conditions*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Highly winter active  
Developed in saline conditions  
Extended cutting and grazing opportunities in autumn and winter  
Produces high quality and exceptional yields



### L92 Lucerne

*Medicago sativa*

*Multiple hay and silage opportunities throughout the season and in a range of environments*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Highly winter active  
Very quick regrowth after cutting or grazing  
Persistent under a wide range of conditions  
Suited to a wide range of soil types



### L91 Lucerne

*Medicago sativa*

*An economical option with strong growth in autumn and winter maximising year round production*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife®

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Highly winter active  
Outstanding seedling vigour  
Extended grazing ability and hay in autumn and winter  
Good for rotations in both dairy and cropping



### L71 Lucerne

*Medicago sativa*

*An economical option with strong growth in autumn and winter maximising year round production*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Highly grazing tolerant  
High pest and disease rating  
Offers a high quality flexible option  
Produces high quality hay



# LUCERNE



## Q75® Lucerne

*Medicago sativa*

*Demonstrated superior quality characteristics in laboratory tests and animal feeding trials*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Excellent leaf retention with large leaf size  
Increased greenness in the bale  
Improved forage quality and winter production  
Produces high quality feed



## L70 Lucerne

*Medicago sativa*

*Cost effective, reliable and robust alternative to Aurora*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife®

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Economical option  
Good pest and disease package  
Reliable yields under wide conditions  
Covered by S&W Seed Company  
Establishment Guarantee® program



## ML66 MultiLeaf® Lucerne

*Medicago sativa*

*Offers a new generation of MultiLeaf® lucerne with improved persistence and quality*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Highly expressive MultiLeaf® trait  
Low crown  
Produces high quality hay and silage  
Persistent under heavy traffic  
Can be used in multi operation farming systems



## SW6330 Lucerne

*Medicago sativa*

*Recovers rapidly from grazing and cutting and has shown excellent persistence*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
High pest and disease rating  
Produces high quality and exceptional yields  
Recovers rapidly after cutting and grazing  
High stand persistence



## GTL60® Lucerne

*Medicago sativa*

*Broad and low set crown, high forage values, high ruminant palatability with high pest and disease ratings*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Rapid regrowth after grazing or cutting  
Very high grazing tolerance  
Produces high quality forage  
Increased grazing rotations



## L56® Lucerne

*Medicago sativa*

*The benchmark dual purpose grazing and hay lucerne in Australia*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Produces high quality and high yielding hay and forage  
Semi winter dormant  
Highly persistent



## Q31® Lucerne

*Medicago sativa*

*Premium quality, superior leaf retention trait, and the highest nutritive value in hay, silage and chaff*

Seeding Rate	kg/ha
Dryland	4-8
High Rainfall/Irrigation	10-20

**Seed Treatment**  
Goldstrike LongLife® XLR8™

**Usage**  
Grazing, hay and silage

**Features & Benefits**  
Winter dormant  
Premium grade hay, chaff and silage  
High quality option with increased flexibility in cutting times



# Valuable quick feed with Compass chicory

**Above**  
Ewes grazing in Compass Chicory  
Penola, SA

**Below**  
Graham Walker with Maggie and  
Ruby inspecting the regrowth on the  
Compass Chicory 12 days after topping

**S&W Compass Chicory has filled a significant feed gap on the dairy property of Graham Walker, at Orbost, in the East Gippsland region of Victoria.**

Mr. Walker has 300 hectares of usable grazing land on his property and will utilise ryegrass-based pastures through the winter and spring period.

The most challenging time to grow pastures is during summer when ryegrass pastures stop producing and there are few other options.

"We've got very light soils and are virtually grass-negative from late November through February," Mr Walker said. "We wanted something that would provide grazing options and have a deeper taproot to access moisture from further in the soil profile."

In the spring of 2020, Mr. Walker planted three different chicory varieties including S&W Seed Company Compass Chicory.

"The Compass really surprised us," Mr. Walker said. "It jumped out of the ground and was better than the others."

The summer of 2020/21 brought little rainfall early on and not much follow-up rain, yet Compass performed well despite these challenging conditions.

"I was impressed with how Compass grew and recovered after grazing," Mr. Walker said. "The cows love it, they eat it to the ground!"

Mr. Walker's enterprise milks a split calving herd of Friesian and cross-bred cows and requires quality grazing options throughout the year.

As a result of the success of Compass chicory in the spring trial, Mr. Walker incorporated Compass into a pasture mix with red and white clovers in autumn.

The clovers thrived alongside the chicory, adding nitrogen to the soil and providing additional protein for grazing.

As a result of the better season conditions in autumn and winter of 2021, Compass performed exceptionally well. "I couldn't be happier with it," Mr. Walker said.



**“**  
**I was impressed with how Compass grew and recovered after grazing... The cows love it. They eat it to the ground.**

**Graham Walker**  
Orbost, Vic



# COMPASS CHICORY

Compass Chicory is a high quality herb option for short-term pastures with rapid seedling growth and excellent livestock performance.

## Ratings:

Seeding vigour



Forage quality



Animal performance



Regeneration



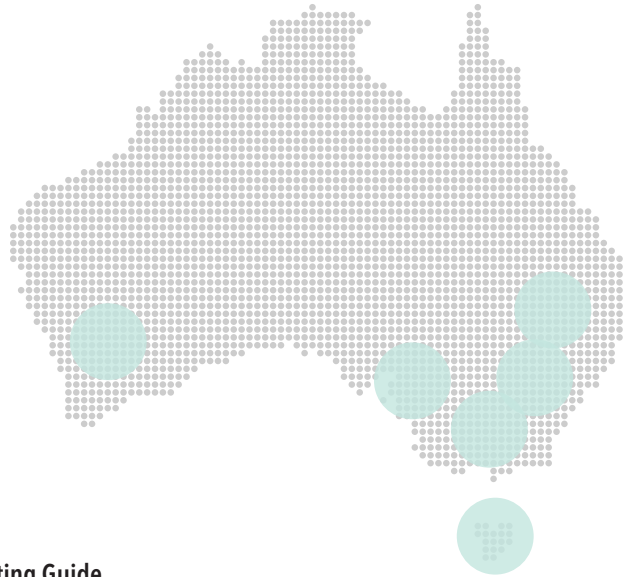
Drought tolerant



Rating scale: 1-9

1 - not recommended

9 - excellent



## Planting Guide

Queensland, New South Wales, Victoria, Tasmania, South Australia and Western Australia.



Above  
Ewes grazing in Compass Chicory Penola, SA

## Features & Benefits



High annual performance



Excellent establishment vigour



High digestibility and preferred intake



Suitable for pasture blends clover rye grass and this same image showing blends



Increased intake and animal performance



Lowers bloat potential in pasture mixes

# FORAGE HERBS & BRASSICA



## Planting Guide

Queensland, New South Wales, Victoria, Tasmania, South Australia and Western Australia.



### Autumn

Compass Chicory, Balance® Chicory, Subzero Hybrid Forage, Ranger® Plantain, Samurai White Mustard™, Smart Radish, Surge Buckwheat™ and Royal Phacelia™



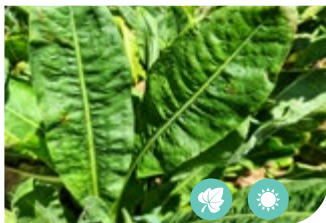
### Winter

Bouncer Hybrid Forage, Subzero Hybrid Forage, Samurai White Mustard™, Smart Radish, Surge Buckwheat™ and Royal Phacelia™



### Spring

Compass Chicory, Balance® Chicory, Bouncer Hybrid Forage, Subzero Hybrid Forage, Ranger® Plantain and Royal Phacelia™



## Compass Chicory

*Chicorium intybus*

Short term chicory

Seeding Rate	kg/ha
Dryland	3
High Rainfall/Irrigation	5

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
High performance animal production

**Features & Benefits**  
Short term type  
Excellent establishment vigour  
High digestibility and preferred intake  
Lowers bloat potential in pasture mixes



## Balance® Chicory

*Chicorium intybus*

True perennial-type chicory

Seeding Rate	kg/ha
Dryland	3
High Rainfall/Irrigation	5

**Seed Treatment**  
XLR8™

**Usage**  
High performance animal production

**Features & Benefits**  
True perennial type  
Highly digestible dry matter  
Excellent pasture mix option  
Lowers bloat potential in pasture mixes



## Bouncer Hybrid Forage

Brassica

*Brassica napus*

Early-maturing hybrid forage brassica

Seeding Rate	kg/ha
Dryland	3
High Rainfall/Irrigation	5

**Seed Treatment**  
None/ XLR8™ optional

**Usage**  
Short term annual grazing forage

**Features & Benefits**  
Leafy turnip  
Very quick to graze, 5 weeks from emergence  
Quick to recover from grazing  
No ripening of forage required before grazing



## Subzero Hybrid Forage

Brassica

*Brassica napus*

Long season forage brassica with cold tolerance

Seeding Rate	kg/ha
Dryland	5
High Rainfall/Irrigation	8

**Seed Treatment**  
XLR8™

**Usage**  
Beef, sheep and dairy grazing

**Features & Benefits**  
Leafy rape  
Withstands frosts as a mature plant  
Spring or autumn sowing option  
Quick to establish  
Nine weeks to first grazing



# FORAGE HERBS & BRASSICA



## Ranger® Plantain

*Plantago lanceolata*

Perennial grazing plantain

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	1-3
High Rainfall/Irrigation	4-8

**Seed Treatment**  
XLR8™

**Usage**  
High performance animal production

**Features & Benefits**  
Nutrient accumulator  
Highly palatable and digestible forage  
Improved livestock weight gains  
Forage is an excellent source of trace elements and has drenching properties



## Samurai White Mustard™

*Sinapis alba*

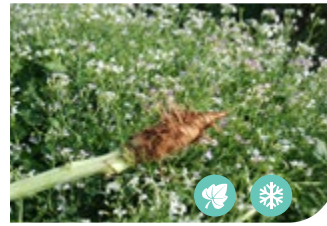
Early/mid maturing floral resource for bee forage and insect habitation

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	2-8
High Rainfall/Irrigation	8-20

**Seed Treatment**  
XLR8™ optional

**Usage**  
Cover crop/Interrow

**Features & Benefits**  
Abundant floral production  
Sustained flowering period  
High levels of attraction to bees and other beneficial insects  
Additional soil borne disease mitigation



## Smart Radish

*Raphanus sativus L*

Tillage type radish with 'pull-down' bulb

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	5
High Rainfall/Irrigation	8

**Seed Treatment**  
Fungicide/ XLR8™ optional

**Usage**  
Quick biomass production and soil health

**Features & Benefits**  
'Pull-down' bulb grows further into the ground  
Very quick to establish  
Increases water infiltration in soils and reduces compaction  
Highly digestible forage source



## Surge Buckwheat™

*Fagopyrum esculentum*

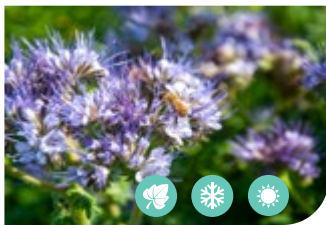
Early vigour cover crop to provide weed suppression and provide quality floral resources

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	40-60
High Rainfall/Irrigation	60-80

**Seed Treatment**  
XLR8™ optional

**Usage**  
Cover crop/Interrow

**Features & Benefits**  
Scavenger of phosphorous and calcium  
Quality weed suppressant  
Attractive to bees with prolific flowering capacity and high nectar flow  
Fast establishing



## Royal Phacelia™

*Phacelia tanacetifolia*

Prolonged floral resource with high levels of quality pollen and nectar for bee forage

<b>Seeding Rate</b>	<b>kg/ha</b>
Dryland	5-10
High Rainfall/Irrigation	10-15

**Seed Treatment**  
XLR8™ optional

**Usage**  
Cover crop/Interrow

**Features & Benefits**  
Adapted to autumn or spring sowing  
Highly attractive to bees and other beneficial insects producing high quality pollen and nectar  
Nitrogen scavenger  
Flowers abundantly for a sustained period of time



“  
Adapted species to provide high quality floral resources at all times of the year

Rehn Freebairn  
S&W Territory Manager  
Eyre Peninsula & WA



Above  
Custom blends -  
Jackpot, Jivet, Turbo  
and Cavalier

# S&W Custom Blends: a strength of our business

**“Offering the best seed options to our farmer customers.” This is the S&W Seed Company promise.**

Sometimes the best seed option may not be a single variety, but a complementary combination of varieties or species designed to utilise different resources within the paddock.

This is where S&W Seed Company Australia's Custom Seed Blends come in.

Custom blends can offer greater flexibility: in the form of different rooting depths to utilise soil nutrients, varying canopy structures to maximise sunlight capture, or to add quality to a pasture blend late in the season.

The ability of S&W's Territory Managers (TMs) to customise a seed blend to suite different soil types and management zones within a farm business gives our customers the capacity to maximise production and improve profitability. Working alongside retail agronomists and farmers, TMs use this tool to place complementary varieties in each management zone for the best results.

Custom blends have always been an important part of S&W's business, along with the traditional

permanent pasture blends and annual ryegrass-clover blends. Now multispecies cover crop blends, with 10 to 15 varieties – and sometimes more – are also gaining in popularity. These offer considerable biodiversity, which improves the soil biology. Another offering that is designed for pollination-dependents industries such as almonds, avocados and macadamias is the Pollinator Blend, which is comprised of flowering species that attract bees and other pollinating insects required by the crop.

At S&W, we are always focused on the changing needs and requirements of our customers. When the pasture seed sector moved to larger-capacity air seeders, S&W responded by investing in higher-capacity mixing facilities, with the ability to bag the custom seed blends into bulk bags up to 1,000 kilograms. This has created greater efficiencies for the farmer and contractor in the paddock, saving time and reducing the need to manually handle small bags.

Custom Seed Blends continue to be an important segment of the S&W business. It's another example of our commitment to offer our farmer customers the optimal seed choices for their enterprise.

“

**Offering the best seed options to our farmer customers. This is the S&W Seed Company promise.**

**Ian Freebairn  
S&W Temperate  
Development Manager**



## The Secret to Success for Organic Veggie

Tom and Kaycee are organic market gardeners from Nambucca on the Mid North Coast of New South Wales. They grow a variety of annual vegetables and sell directly to their local community through farmers markets and online.

The pair worked closely with S&W to develop a customised annual cover crop blend that benefited their enterprise and local climate.

"Farming in a humid sub-tropical climate, with the majority of rain falling over the summer months along with the associated pests and disease issues...we decided early on in our growing career to break production during these months," Tom and Kaycee clarified.

"Along with regular compost amendments, nutrient balancing and biological inputs, we have found cover cropping to be integral to our soils and maintaining ground cover during the Summer break."

Maintaining and improving soil health is central to the core business of The Mandarin Bend. It is a smaller-scale, intensive production system where permanent no-till raised beds are pushed to yield three to four successive crop cycles during the one growing season. Without adequate attention to the soil health and nutrient replacement, this production model would simply be not possible.

Through working with the S&W Team, Tom and Kaycee were able to find the seed diversity that is essential to cover cropping success – something that had previously been a challenge when using local rural merchants.

"It's now working great", they explain. "We've sown a ten species cover crop mix that includes grains, pseudo grains, pulses, legumes and brassicas."

The cover crops are terminated by crimping with a walking tractor, flail mowed and then left covered with a tarp to decompose. Once the tarps are pulled back, the impact of the cover cropping process is apparent – the soil is once again friable and teeming with life.

Tom and Kaycee are certain that their continued success and high production levels are due to their focus on the use of cover crops.



Above  
Tom and Kaycee, Nambucca, NSW  
Customised annual cover crop blend



### Planting Guide

Queensland, New South Wales, Victoria, Tasmania, South Australia and Western Australia.

“  
Working with the S&W Team we were able to find the seed diversity that is essential to cover cropping success.”

Tom and Kaycee  
Nambucca, NSW



## Perennial HR SOWsmart® BLEND

A combination of perennial ryegrasses, as well as white, red and sub clovers intended to maximise dry matter production while maintaining exceptional feed quality. Suited to high rainfall and irrigation areas, SOWsmart® Perennial HR Blend has the potential to produce high quality feed and condition stock year-round.

<b>Min Rainfall (mm)</b>	650
<b>Soil Type</b>	Light & Heavy
<b>Seeding Rate</b>	25-30 kg/ha
<b>Usage</b>	Pasture production
Ansa Diploid	40%
Perennial Ryegrass	
Impact® Diploid Long	35%
Rotation Ryegrass	
Jumbo White Clover	10%
Ovaflow® Sub Clover	10%
Rajah Red Clover	5%



## Southern Horse HR SOWsmart® BLEND

A combination of highly-palatable species for horses that is persistent in higher rainfall environments.

<b>Min Rainfall (mm)</b>	650
<b>Soil Type</b>	Light & Heavy
<b>Seeding Rate</b>	12-18 kg/ha
<b>Usage</b>	Southern equine pastures
Enduromax® Balansa Clover	5%
Convoy® Continental	10%
Cocksfoot	
Drylander Diploid	20%
Perennial Ryegrass	
GTL®60 Lucerne	10%
Hatrik® Sub Clover	5%
Impact® Diploid Long	20%
Rotation Ryegrass	
Matua Prairie Grass	10%
Tower Summer Active	20%
Tall Fescue	



## Southern Horse LR SOWsmart® BLEND

A combination of highly-palatable species for horses that is persistent in lower rainfall environments.

<b>Min Rainfall (mm)</b>	400
<b>Soil Type</b>	Light
<b>Seeding Rate</b>	12-18 kg/ha
<b>Usage</b>	Southern equine pastures
Australis® Australian	25%
Phalaris	
Enduromax® Balansa Clover	5%
Convoy® Continental	30%
Cocksfoot	
Dalsa® Sub Clover	10%
Drylander Diploid	20%
Perennial Ryegrass	
L71 Lucerne	10%



## Grazier SOWsmart® BLEND

Based on the beef, prime lamb and wool farming system, sub, white and balansa clovers produce quality and high dry matter production with secure persistence.

<b>Min Rainfall (mm)</b>	400
<b>Soil Type</b>	Light & Heavy
<b>Seeding Rate</b>	18-25 kg/ha
<b>Usage</b>	Pasture production
Enduromax® Balansa Clover	10%
Dalsa® Sub Clover	15%
Drylander Diploid	20%
Perennial Ryegrass	
Hatrik® Sub Clover	20%
Origin Winter Active	15%
Tall Fescue	
Valley® Diploid	20%
Perennial Ryegrass	



## Persistor SOWsmart® BLEND

A winning combination of extremely persistent perennial grasses. This blend has been specifically intended for grazing systems in marginal rainfall areas to produce consistent feed over many years.

<b>Min Rainfall (mm)</b>	450
<b>Soil Type</b>	N
<b>Seeding Rate</b>	18-25 kg/ha
<b>Usage</b>	Pasture production
Australis® Australian	15%
Phalaris	
Cavalier Spineless	10%
Burr Medic	
Enduromax® Balansa Clover	10%
Convoy® Continental	15%
Cocksfoot	
Dalsa® Sub Clover	20%
Hatrik® Sub Clover	10%
Origin Winter Active	20%
Tall Fescue	



## Winter Max SOWsmart® BLEND

This blend of late maturing diploid and tetraploid Italian ryegrasses, with late-flowering persian and balansa clovers, can be used as a late-season annual or a bi-annual in favourable conditions. It provides high winter production with late season quality and second-year production.

<b>Min Rainfall (mm)</b>	450
<b>Soil Type</b>	N
<b>Seeding Rate</b>	23-35 kg/ha
<b>Usage</b>	Pasture production
Jackpot Diploid	40%
Italian Ryegrass	
Longhaul® Balansa Clover	10%
Clover	
Mona Tetraploid	30%
Italian Ryegrass	
Turbo Persian Clover	20%



## Winter Express SOWsmart® BLEND

A blend of tetraploid annual ryegrass, persian and balansa clovers offers a highly winter-active, fast to establish and high quality forage source. Suitable for grazing, silage and hay.

<b>Min Rainfall (mm)</b>	450
<b>Soil Type</b>	N
<b>Seeding Rate</b>	23-35 kg/ha
<b>Usage</b>	Pasture grazing/Hay and silage
Jivet Tetraploid	70%
Annual Ryegrass	
Longhaul® Balansa Clover	10%
Clover	
Turbo Persian Clover	20%



## Winter Feed SOWsmart® BLEND

A traditional blend of annual ryegrass and persian clover. Designed for oversowing or new plantings into good dryland or irrigated situations.

<b>Min Rainfall (mm)</b>	350
<b>Soil Type</b>	N
<b>Seeding Rate</b>	23-35 kg/ha
<b>Usage</b>	Pasture grazing/Hay and silage
Tetrone Tetraploid	70%
Annual Ryegrass	
Turbo Persian Clover	30%





## HDL SOWsmart® BLEND

A high-density legume mix suited to medium and higher rainfall zones that provides outstanding dry matter production and nitrogen fixation. An effective and profitable way of managing herbicide resistant annual ryegrass. This blend can contribute up to 50 kilograms per hectare of nitrogen for subsequent crops, the equivalent of 100 kilograms per hectare of urea.

<b>Min Rainfall (mm)</b>	350
<b>Soil Type</b>	N
<b>Seeding Rate</b>	20-25 kg/ha
<b>Usage</b>	Pasture production
Bartolo Bladder	20%
Clover	
Cavalier Spineless	30%
Burr Medic	
Enduromax® Balansa Clover	10%
Dalsa® Sub Clover	20%
SARDI® Persian Clover	20%



## Bloat Fighter SOWsmart® BLEND

This blend of pasture varieties with proven anti-bloating proteins is designed to minimise the risk of bloat when grazing lucerne-rich pastures. SOWsmart® Bloat Fighter Blend provides an alternative to pure lucerne stands, providing improved palatability with similar weight gains for livestock.

<b>Min Rainfall (mm)</b>	350
<b>Soil Type</b>	N
<b>Seeding Rate</b>	4-6 kg/ha
<b>Usage</b>	Pasture production
Balance Chicory®	30%
L71 Lucerne	50%
Zulumax® Arrowleaf Clover	20%



## Lucerne and Chicory SOWsmart® BLEND

This blend of lucerne and mineral rich, highly-palatable long-term chicory delivers a strong protein to energy ratio driving high animal production.

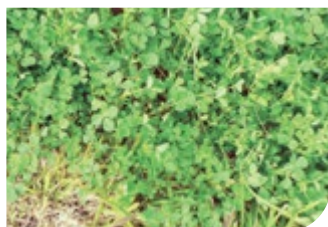
<b>Min Rainfall (mm)</b>	350
<b>Soil Type</b>	N
<b>Seeding Rate</b>	15-18 kg/ha
<b>Usage</b>	Pasture production
Balance Chicory®	20%
GTL®60 Lucerne	80%



## Medic Haygraze LR SOWsmart® BLEND

A blend of hard seeded annual legumes targeted at low rainfall zones with the purpose of producing large quantities of dry matter.

<b>Min Rainfall (mm)</b>	350
<b>Soil Type</b>	N
<b>Seeding Rate</b>	3-10 kg/ha
<b>Usage</b>	Pasture production
Bartolo Bladder	10%
Clover	
Bindaroo Button	10%
Medic	
Caliph Barrel Medic	20%
Enduromax® Balansa Clover	10%
Cavalier Spineless	40%
Burr Medic	
Silver Snail Medic	10%



## Medic Oversow SOWsmart® BLEND

A well-rounded combination of medic designed to provide quality autumn and winter production in existing subtropical and native pastures. Extremely hard seeded, with the ability to set abundant amounts of seed, ensuring persistence over many years.

<b>Min Rainfall (mm)</b>	350
<b>Soil Type</b>	N
<b>Seeding Rate</b>	3-10 kg/ha
<b>Usage</b>	Pasture production
Bindaroo Button	25%
Medic	
Caliph Barrel Medic	25%
Cavalier Spineless	25%
Burr Medic	
Silver Snail Medic	25%



We stock a diverse range of SOWsmart® blends to suit just about any scenario. From perennial pastures, hay and silage options, regenerating legumes, and summer crops we'll have something 'ready-to-sow'. Our temperate SOWsmart blends contain only our premium propriety products meaning that you're also covered by our Establishment Guarantee® program.

Nicole Frost  
S&W Territory Manager  
Gippsland & Tasmania





# Double crop success with SuperSun 66

Above  
Double crop Supersun66 near Breeza, NSW  
Below  
Harvest time at Breeza - The block averaged better than 2.5 tonne per hectare

Pursehouse Rural Gunnedah agronomist John Nott was looking for a summer crop option when early summer rain partially filled the profile late in December 2020 on one of his growers blocks near Breeza.

The heavy stubble from the successful durum crop reduced the possibility of any pre emergent herbicides so a post plant glyphosate was used at sowing. The target sowing was 46,000 seeds per ha (4.6/meter row).

Continued rain through January and February set the crop up well, with an in crop selective grass herbicide and a late propanoazole as a powdery mildew treatment prior to flowering. The other management issue was the mice. "We ended up baiting three times and then speeding the finish up by desiccating with reglone," noted Mr Nott. "The mice were constant, we couldn't keep them under control."

Despite the constant mouse pressure it was a fabulous result. The block averaged better than 2.5 tonne per hectare with the final result not finalised as the crop was stored on farm. Mr Nott's final comment was "its not a bad result for double crop back into heavy stubble. With more regular marketing opportunities, we'd do it a lot more."





# SUPERSUN 66 SUNFLOWER

SuperSun 66 is a medium to tall, medium to full season variety, adapted to a wide range of environmental conditions and sowing times.

SuperSun 66 has shown excellent yield potential from marginal dryland to favourable and irrigated crop situations.

SuperSun 66 plant population should be adapted based on expected field conditions to maximise kernel size and head filling.

Potential to capture both polyunsaturated oil crushing market and premium human consumption market based on seasonal conditions.

Multiple sowing windows in Northern NSW, Southern and central Qld.

Manage sucking pests for best result for both yield potential and oil quality.

Avoid areas with parthenium weed or increase sucking pest management as known parthenium is a known host for Tobacco Streak virus.

## Ratings

Standability



Disease resistance



Adaption



Weed competitiveness



Grown on soil moisture



Irrigation



TSV resistance



Rating scale: 1-9

1 - not recommended

9 - excellent

## Features & Benefits



Mid to full season maturity with excellent standability



Semi pendulous heads



Resistance to major diseases such as Leaf Rust, Albugo, White Blister and Alternaria



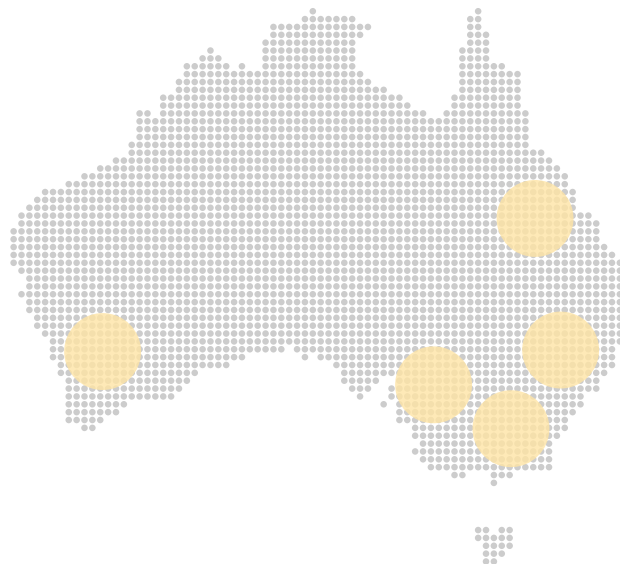
Proven to perform under marginal dryland in tough seasonal conditions



Semi pendulous head reduces sunburn, head rot and bird damage



Excellent yield potential under favourable conditions with access to premium human consumption markets (dehulling)



## Planting Guide

Queensland, New South Wales, Victoria, South Australia and Western Australia.

## Description

Hybrid polyunsaturated black seeded sunflower

## Market Segment/Target

Suitable for polyunsaturated oil production (crushing) or dehulling for confectionery market due to large plump seed size

## Seeding Rate (kg/ha)

Marginal dryland	25,000-35,000
Dryland	45,000-55,000
High Rainfall/ Irrigation	55,000-65,000

## Seed Treatment

Cosmos Insecticide

# Seed Treatment Options

At S&W Seed Company Australia we are always looking to new technology – constantly striving to improve our offering – bringing the latest technology, with even better performance to our leading forage products.

## Goldstrike®

S&W Seed Company Goldstrike® includes rhizobia inoculation, micronutrient package and Apron® XL fungicide (where available on label). Goldstrike® is comprised of the highest quality seed and coating technology and is the best establishment package for pasture legumes.

## Goldstrike LongLife®

Goldstrike LongLife® offers extended rhizobia storage life on a range of species. Goldstrike LongLife® can provide up to six months storage life on medic and sub clover, and up to 12 months storage life on lucerne.

## XLR8™

XLR8™ treatment is a film coat application of Poncho® Plus insecticide.

Poncho® Plus is a significant advancement in the seed treatment market. It is an innovative insecticidal seed treatment that has registration across a range of pasture species and forage crops.

Poncho® Plus combines two robust compounds, imidacloprid and clothianidin, which increase the insect control spectrum above other seed treatment options. Poncho® Plus provides protection during establishment against a range of pests including Redlegged Earth Mite, Cutworm and Lucerne Flea. Poncho® Plus also offers added establishment vigour in the early growth stage of the plant.

The benefits from our XLR8™ seed treatment not only comes in the form of insect protection, but also shows long term benefit in assisting early seedling plant growth. This is demonstrated with greater root system development in seedlings, leading to higher overall pasture establishment and long-term pasture production.

Our XLR8™ seed treatment comes standard on all brassicas, herbs, and our premium proprietary lucerne varieties. Our XLR8™ seed treatment can be applied upon request to all seed products where registration is applicable.

	Micro Nutrient	Rhizobia Inoculation	Apron®XL Fungicide*	LongLife tested**	Poncho® Plus Insecticide	Gaucho® Insecticide	Film coat only
Goldstrike®	✓	✓	✓				
Goldstrike LongLife®	✓	✓	✓	✓			
Goldstrike LongLife® XLR8™	✓	✓	✓	✓	✓		
Goldstrike XLR8®	✓	✓	✓		✓		
XLR8™					✓		✓
Gaucho®						✓	✓

\*Where available on label \*\* Six months storage life on medics and sub clovers, and up to 12 months storage life on lucernes.

Poncho® Plus Comparison Chart	SEED TREATMENT			BARE SEED AND FOLIAR SPRAY		
	Poncho® Plus Broadleaf Pasture	Poncho® Plus Grass Pasture	Gaucho®	Chlorpyrifos	Ground Spray Dimetheoate	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	✓	✓	✓		



For technical advice contact your local Territory Manager



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**“At S&W Seed Company we are committed to helping growers and agronomists find the right product for every operation.”**

**Nicole Frost**  
Territory Manager  
Gippsland & Tas

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