

SEED GUIDE

www.swseedco.com.au Your partner in the paddock.









'Why Choose S&W Seed?'

S&W Seed Company is dedicated to providing the world's farmers with the very best seed varieties and hybrids to maximize their yields and profits, while providing products for peak performance, just as we have for over 40 years.

Our journey began in 1980 with a group of innovative farmers looking to optimise lucerne stock feeds. Over forty years on, S&W Seed Company is now a global leader in lucerne, wheat, pasture species, grain & forage sorghums, sunflower, and other key crops.

Since going public in 2010, S&W has dramatically opened new markets and expanded its research and development focus. Our R&D team collaborates with genetic providers and breeding organisations worldwide, using our proprietary germplasm to create market-leading products for modern cropping and forage systems.

Get in touch with us to learn more about how our Australian expert team can work with you and our premium range of seeds to achieve maximum returns – this season, and every season for your enterprise.





Establishment Guarantee*

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® 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[®]. Plant with peace of mind and the support of S&W Seed Company Australia.

* Terms and Conditions apply.



FORAGE CEREALS

SEED COMPAN

FORAGE CEREALS



Northern Regions

Bronco Forage Oats, Kraken Forage Barley

Southern Regions

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

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

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. 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



Bronco Forage Oats and S&W Overland® Forage Oats



Winter Bronco For

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

Bronco Forage Oats

Avena sativa

THE IDEAL FORAGE OATS CHOICE FOR NORTHERN AUSTRALIA



PROVEN STRONG LEAF RUST RESISTANCE



OLD & NORTHERN NSW



Fast establishing autumn-spring growing fodder crop with high feeding value



🐛 🛛 Wide leaf, true forage oat with high leaf to stem ratio

Excellent recovery from grazing

Suitable for grazing, silage, or hay production

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

Seed Treatment None / XLR8™ optional

Features & Benefits

Crown rust resistant Long season of production Excellent warm soil emergence Flexible option when season extends

Rating scale



Rating scale: 1-9 1 - not recommended

9 - excellent

S&W Overland[™] Forage Oats

NEW RELEASE

Avena sativa

A MID-LATE MATURING FORAGE OAT WITH **IMPROVED TILLER PRODUCTION**



HIGH YIELDING HIGH **TILLER DENSITY**

SUITABLE TO PLANT IN NSW, VIC, SA, TAS & WA



Fast establishing autumn-spring growing fodder crop with high feeding value



🐛 🛛 Wide leaf, true forage oat with high leaf to stem ratio Excellent recovery from grazing



Suitable for grazing, silage, or hay production

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

Seed Treatment None / XLR8™ optional

Features & Benefits

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

Rating scale

Early	sowin	g							
	1	1	1	1	1	I	I.	I.	9
Tilleri	ng								
	I.	1.00	1	1	1	1	1	8	\supset
Matu	rity								
	1	1	1	1	1	1	1	I.	9
Recov	/ery fr	om gra	azing						
	I.	1	1	1	- Į	1	1	8	\supset
Forag	je yiel	d							
	I.	1.00	1	1.00	1	1	I	- I	9
Animal performance									
	I.	I.	I.	1	1	1	1	I.	9

Rating scale: 1-9

1 - not recommended

9 - excellent

FORAGE CEREALS

Kraken Forage Barley

Hordeum vulgare

AN EARLY MATURING FORAGE BARLEY PERFECT FOR SOWING LATE AND GRAZING EARLY



2 ROW AWNLESS **FORAGE BARLEY**



SUITABLE TO PLANT IN QLD, NSW, VIC, SA & WA

NEW RELEASE



Good disease resistance package

Sow late and graze early

P

Can be used to provide weed control and soil preparatory



Fast to establish, very quick feed grown on farm and excellent hay option

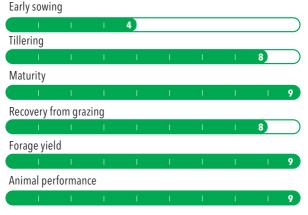
Seeding Rate	kg/ha
Dryland	30-50
High Rainfall/Irrigation	50-80

Seed Treatment None / XLR8™ optional

Features & Benefits

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

Rating scale



Rating scale: 1-9 1 - not recommended

9 - excellent

Forage Oats Grazing Trial

2019 | Penfield Research Station

- An irrigated six hectare paddock was divided into 12 half-hectare sections. On May 13, four of these sections were each sown with Bronco Forage Oats, Drover Oats, and Comet Oats.
- Sowing rate was 75 kilograms per hectare.
- 30 Angus x Hereford steers and heifers were split into three grazing groups of 10 animals each, with an average starting weight of 229 kilograms and began grazing the trial on August 19, 15 weeks after sowing.
- The three groups simultaneously grazed each of the varieties throughout the duration of the trial.
- The trial ran for 12 weeks until October 21, each variety at least would be grazed for an equal duration by each group of cattle.
- No other feed or supplements were given to the animals.

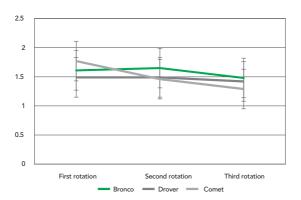
DISCUSSION:

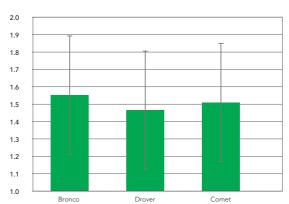
This trial was designed to showcase the quality differences and live weight gain performance between leading and commonly grown oat varieties available now in Australia. With equal grazing time and identical conditions for each of the varieties, the idea behind the trial protocol was to have the individual oat variety as the only variable measured.

All three varieties established well in a fairly late break to the season and were grazed around 15 weeks after sowing. Grazed from mid-August through to late-October, 12 weeks of solid rotational grazing tested the productivity of all three varieties. Early on, Comet had excellent weight gain as a result of having the most feed at the time of first grazing, however it did not recover as well as the Bronco and Drover and had a poorer finish to the season.

Bronco performed well all throughout the trial. In a year where moisture stress was relevant, the ability of the Bronco to regrow and recover from tough grazing conditions was showcased by the consistency of the weight gain results throughout the duration of the trial. Also, there could have easily been another one or two grazing events from the Bronco if the season did not cut out early drying off. This was very different in comparison with the Drover which was starting to go to head in the last rotation of the trial, and regrowth after the third grazing event was extremely poor.

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Total average kg/day weight gain

Daily average kg/day weight gain

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

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

Forage Barley Grazing Trial

2020 | Penfield Research Station

AIM:

This trial was undertaken to assess the performance of later sown forage barley varieties, for winter production and also performance post-grazing late into the season. Kraken Forage Barley is a new, 2 row, white seeded, awnless forage barley that is being released commercially in 2020. The comparator varieties chosen are both market leaders in Moby Forage Barley and Dictator 2 Barley.

METHODS:

- An irrigated six hectare paddock was divided into 12 halfhectare sections. On May 1, four of these sections were each sown with Kraken, Moby and Dictator 2.
- Sowing rate was 75 kilograms per hectare.
- 27 Angus x Hereford steers and heifers were split into three grazing groups of nine animals each, with an average starting weight of 201 kilograms and began grazing the trial on August 7, 14 weeks after sowing.
- The three groups simultaneously grazed each of the varieties throughout the duration of the trial.
- The trial ran for 12 weeks until October 30, each variety at least would be grazed for an equal duration by each group of cattle.
- No other feed or supplements were given to the animals.

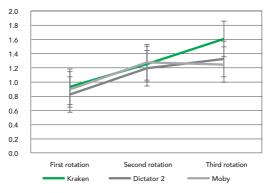
RESULTS & DISCUSSION:

All three varieties had excellent vigour out of the ground, and impressive growth rates leading up to the first grazing. All varieties were tested for quality and digestibility prior to first grazing (Table 1). After 14 weeks, the trial was grazed for the first time, and the rotation of the cattle groups through each variety commenced.

Early performance from the varieties for weight gain per day was very similar (Figure 1). Dictator 2 and Moby however did not appear to have the regrowth that the Kraken did in the second, and particularly the third rotation. With a drop in the growth rate of the forage, the live weight gain per day on the cattle dropped performance as well. While not statistically different, the trends shown from the results indicate that Kraken would maintain higher weight gains as the trial went on.

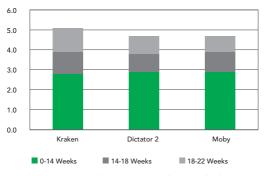
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In the final grazing rotation, the Kraken also continued to produce leaf, and digestible forage. Moby and Dictator 2 moved into the reproductive phase, forage production dropped as seed heads emerged (Figure 2). Due to it's significantly longer vegetative phase compared to the other varieties, Kraken could have had another round of grazing with continued high weight gains expected if the trial was continued further. However, the trial was concluded as there was little growth or quality forage left in the other sections.



Daily average kg/day weight gain

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



t DM/Ha forage production

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

Total average kg/day weight gain

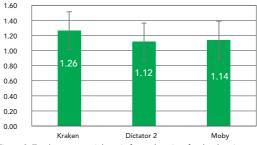


Figure 3: Total average weight gain for each variety for the duration of the trial.

Feed test samples were taken prior to the first grazing from fresh pasture cuts and analysed for standard quality characteristics as shown in Table 1.

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

Table 1: Feed quality results prior to first grazing.

WINTER CEREALS



WINTER CEREALS



Northern Regions

Tull

Southern Regions

Bennett, Severn and Pascal

Winter cereal planting options.

Planting Guide



Autumn Bennett, Severn, Pascal and Tull



Winter Pascal and Tull



Severn Dual Purpose Wheat Triticum aestivum

AN EARLY PLANT OPTION FOR WINTER & SPRING GRAZING, HAY AND SILAGE PRODUCTION



SUITABLE TO PLANT IN QLD, NSW, VIC, TAS, SA & WA

NEW RELEASE



Good disease resistance package

*

Strong straw strength with excellent standability and dense tillering



Improved weed control options compared to oats

Excellent forage yields

Grain Quality

All Regions: Feed

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

Rating scale

Early	sowin	g							
	I.	1	1.00	1	1	1	1	8	\supset
Tilleri	ng								
	I.	1	1	1	1	1	1	8	\supset
Matu	rity								
	I.	1	1	1	1	I	1	I.	9
Recov	ery fr	om gra	azing						
	I.	1	1	1	1	1	1.0	8	\supset
Forag	e yiel	d							
	I.	1.00	1	1	1	1	1	I.	9
Animal performance									
	I.	I	1			1	1	l.	9

Rating scale: 1-9 1 - not recommended

9 - excellent

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Bennett Dual Purpose Wheat Triticum aestivum

LONG SEASON AWNLESS WHITE WINTER WHEAT

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

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 Highest grain yielding milling grade wheat in many regions



Pascal Wheat Triticum aestivum

AWNED HEAD TYPE MILLING WHEAT

Grain Quality W, S & SE: APW | N: AH

Features & Benefits

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

> Tull Wheat Triticum aestivum

COMPACT PLANT AND HEAD TYPE WITH GOOD EARLY VIGOUR AND MODERATE TILLERING

Grain Quality SE: APH

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 Low risk of lodging due to plant architecture Suited for irrigation

WINTER LEGUMES

SEED COMPAN

WINTER LEGUMES



Planting Guide

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

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.

Planting Guide



Fantastic early vigour



Seedling frost



White flowers from 'Blanchefleur' parentage



Higher yield limited moisture



Late sowing allows for better weed control post season break High dry matter and grain yields in short season areas

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 Dryland

kg/ha 30-45

Seed Treatment None / XLR8™ optional

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 guality, ideal feed for livestock operations

Presto® Purple Vetch

Vicia benghalensis

VERY EARLY MATURING PURPLE VETCH

Seeding Rate Dryland

30-45

None / XLR8[™] optional

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

Studenica Vetch Vicia sativa

LATEST RELEASE COMMON VETCH

WITH SEEDLING FROST TOLERANCE **Seeding Rate**

Dryland

kg/ha

Seed Treatment None / XLR8[™] optional







kg/ha

Seed Treatment



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

PASTURE GRASSES

SEED COMPAN



Tetrone Tetraploid Annual Ryegrass Lolium multiflorum/Westerwolds

MID-MATURING WITH EXCELLENT SEEDLING VIGOUR

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation25-30

Seed Treatment None / XLR8™ optional

Features & Benefits

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



MAXIMISES WINTER AND SPRING PRODUCTION PLUS LATE SPRING QUALITY AND GROWTH

Seeding Ratekg/haDryland10-18High Rainfall/Irrigation25-30

Seed Treatment None / XLR8™ optional

Features & Benefits

Rapid establishment Fast regrowth during winter Increased winter and spring feed Heading date +10 days



Loader Tetraploid Annual Ryegrass Lolium multiflorum/Westerwolds

MAXIMISES WINTER AND SPRING PRODUCTION PLUS LATE SPRING QUALITY AND GROWTH

Seed Treatment

None / XLR8™ optional

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation25-30

Features & Benefits

Rapid establishment Fast regrowth during winter Extended spring growth Heading date +16 days

Sorrento Diploid Italian Ryegrass Lolium multiflorum

MODERN RYEGRASS BRED FOR HIGH WINTER AND SPRING PRODUCTION

Seeding Ratekg/haDryland15-20High Rainfall/Irrigation20-25

Seed Treatment None / XLR8™ optional

Features & Benefits

Rapid establishment Fast regrowth during winter High stock performance Heading date +16 days

Maheno Tetraploid Italian Ryegrass

MID-MATURING WITH EXCELLENT SEEDLING VIGOUR

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation25-30

Seed Treatment None / XLR8™ optional

Features & Benefits

Rapid establishment Fast regrowth during winter Extended spring growth Heading date +18 days





Valley^{*} **Diploid Perennial Ryegrass** Lolium perenne

VERY EARLY FLOWERING (-17 DAYS) SELECTED FOR EXCELLENT WINTER GROWTH

Seeding Rate kg/ha Dryland 8-14 High Rainfall/Irrigation 20-25 Seed Treatment None / XLR8™ optional

Features & Benefits

Summer dormant Very early heading Suited to dry environments Heading date -17 days

Drylander Diploid Perennial Ryegrass Lolium perenne

HIGHLY PERSISTENT PERENNIAL GROWN ONLY ON DRYLAND PADDOCKS TO MAINTAIN SURVIVABILITY

Seeding Rate kg/ha Dryland 8-14 High Rainfall/Irrigation 20-25 Seed Treatment None / XLR8™ optional

Features & Benefits

Good persistence Grazing tolerance Suited to marginal perennial ryegrass country Heading date -7 days



HIGHLY RELIABLE - PROVEN TO HAVE EXCELLENT PERSISTENCE AND TOTAL FEED PRODUCTION

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation20-25

Seed Treatment None / XLR8™ optional

Features & Benefits

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

Origin Winter Active Tall Fescue Festuca arundinacea

DROUGHT TOLERANT BRED FOR EXCELLENT WINTER **GROWTH AND SUMMER DORMANCY**

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

Seed Treatment None / XLR8[™] optional

Features & Benefits

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

Convoy[®] Continental Cocksfoot

Dactylis glomerata

ROBUST COCKSFOOT BRED FOR HIGH PALATABILITY AND PERSISTENCE IN TOUGH CONDITIONS

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

Seed Treatment None / XLR8[™] optional

Seed Treatment

None / XLR8[™] optional

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 FOR PERSISTENCE AND PRODUCTIVITY

Seeding Rate

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

Features & Benefits

Very persistent Drought tolerant Reliable persistence Summer growth



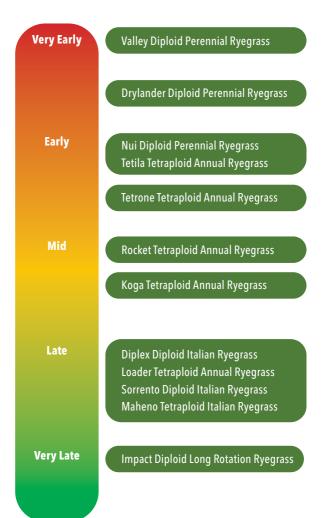


Understanding the importance of ryegrass heading dates

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

Ryegrass heading date influences pasture production in two ways.

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



CLOVER & PASTURE LEGUMES

SEED COMPANY



NEW RELEASE

EARLY MATURING BALANSA WITH ELITE WINTER PRODUCTION

Seeding Ratekg/haDryland4-6High Rainfall/Irrigation8-12

Seed Treatment Goldstrike®

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



MID-MATURITY BALANSA WITH EXCELLENT PERSISTENCE

Seeding Ratekg/haDryland4-6High Rainfall/Irrigation8-12

Seed Treatment Goldstrike®

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

Baler Balansa Clover



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Trifolium michelianum

VERY LATE MATURING BALANSA FOR MAXIMUM YIELD POTENTIAL

Seeding Ratekg/haDryland4-6High Rainfall/Irrigation8-12

Seed Treatment Goldstrike®

Features & Benefits

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

BIG YIELDING, SHORT-TERM RED CLOVER

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

Seed Treatment Goldstrike[®]

Features & Benefits

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

Turbo Persian Clover

Trifolium resupinatum sub species majus

LATE SEASON PERSIAN WITH EXCELLENT **RECOVERY FROM GRAZING OR HARVEST**

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

Seed Treatment **Goldstrike**[®]

Features & Benefits

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

SARDI[®] Persian Clover

Trifolium resupinatum

HARD SEEDED TYPE WITH MID MATURITY

Seeding Rate Dryland High Rainfall/Irrigation 10-15

Features & Benefits

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







kg/ha 5-8

Seed Treatment Goldstrike[®]



Dalsa[®] Sub Clover Trifolium subterranean

EARLY MATURITY CONVENTIONAL SUB WITH GREAT EARLY VIGOUR

Seeding Ratekg/haDryland8-14High Rainfall/Irrigation15-20

Seed Treatment Goldstrike LongLife®

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 Ratekg/haDryland8-14High Rainfall/Irrigation15-20

Seed Treatment Goldstrike LongLife[®]

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 LEAF 'BRACHY' TYPE SUB CLOVER

Seeding Rate kg/ha Dryland 8-14 High Rainfall/Irrigation 15-20 Seed Treatment Goldstrike LongLife®

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

Features & Benefits

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

Casper White Clover

Trifolium repens

EARLY MATURING VARIETY WITH LARGE LEAF SIZE

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

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

Seeding Rate

Dryland

LATE MATURING 'LADINO' TYPE

Features & Benefits

High Rainfall/Irrigation

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

kg/ha 3-4

5-8

Seed Treatment **Goldstrike**[®]

Seed Treatment

Seed Treatment

Goldstrike[®]









Riesling White Clover Trifolium repens

EARLY MATURING VARIETY WITH HIGH STOLON DENSITY

Seeding Ratekg/haDryland3-4High Rainfall/Irrigation5-8

Seed Treatment Goldstrike®

Features & Benefits

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

SARDI Rose Clover



Trifolium hirtum

HIGH PERSISTENT ROSE CLOVER WITH IMPROVED HARD SEEDS

Seeding Ratekg/haDryland5-8High Rainfall/Irrigation10-15

Seed Treatment Goldstrike®

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



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Zulumax[®] Arrowleaf Clover Trifolium vesiculosum

LONG SEASON VARIETY WITH HIGH YIELD POTENTIAL

Seeding Ratekg/haDryland6-10High Rainfall/Irrigation10-15

Seed Treatment Goldstrike®

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

Seeding Ratekg/haDryland8-10High Rainfall/Irrigation10-15

Seed Treatment Goldstrike®

Seed Treatment

Seed Treatment

Goldstrike LongLife®

Goldstrike[®]

Features & Benefits Quick establishment vigour

Multiple cut variety Low bloat potential High forage yield potential

Bartolo Bladder Clover

Trifolium spumosum

ADAPTABLE OVER WIDE SOIL TYPES, VERY HIGH LEVELS OF HARD SEED

Seeding Ratekg/haDryland8-14High Rainfall/Irrigation15-20

Features & Benefits

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

Emperor Barrel Medic

Medicago truncatula

LATE MATURING BARREL MEDIC WITH POWDERY MILDEW RESISTANCE

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation15-20

Features & Benefits

Powdery Mildew resistant Excellent dry matter production and grazing recovery Good grazing tolerance

Product developed in collaboration with MLA, S&W & SARDI







ARDI





Penfield Barrel Medic

Medicago truncatula

NEW RELEASE

EARLY MATURING SPINELESS BARREL MEDIC WITH SU HERBICIDE RESIDUE TOLERANCE

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation15-20

Features & Benefits

Seed Treatment Goldstrike LongLife®

Product developed in collaboration with MLA, S&W & SARDI

Spineless barrel medic S&W & SAR SU herbicide residue tolerance First medic variety with elite combination of spineless trait and SU herbicide residue tolerance in a barrel medic



mla



Bindaroo Button Medic Medicago orbicularis

A PROSTRATE GROWING MEDIC WITH HIGH HARD SEEDS AND PERSISTENCE

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation15-20

Seed Treatment Goldstrike LongLife®

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

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation15-20

Seed Treatment Goldstrike LongLife®

Features & Benefits

Very early maturing Barrel shaped seed pod Aphid resistance Excellent base legume for low rainfall pasture grazing HIGHLY ADAPTABLE ANNUAL MEDIC WITH VERSATILE USES

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation15-20

Features & Benefits

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

Seed Treatment

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Seed Treatment

Goldstrike LongLife®

Goldstrike LongLife®

Goldstrike LongLife®

Seraph Strand Medic

Medicago littoralis

POWDERY MILDEW RESISTANT, SU RESIDUE TOLERANT STRAND MEDIC

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation15-20

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

Seeding Ratekg/haDryland15-18High Rainfall/Irrigation18-25

Features & Benefits

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







Clover – Species Identification and Agronomic Traits

Variety & Species	Annual/ Perennial	Maturity	Hard Seed
Turbo Persian	Annual	Very late/ multi-cut	Low
Sardi Persian	Annual	Mid	High
Zulumax Arrowleaf	Annual	Late	High
White Cloud Crimson	Annual	Mid	Soft
Alexandria Berseem	Annual	Mid-late	Low
Sardi Rose	Annual	Early-mid	Medium
Bartolo Bladder	Annual	Early	High
Enduromax Balansa	Annual	Early	High
Border Balansa	Annual	Mid	High
Baler Balansa	Annual	Late	High
Renegade Red	Perennial	Mid	-
Haifa White	Perennial	Early	-
Casper White	Perennial	Early	-
Jumbo White	Perennial	Late	-
Palestine Strawberry	Perennial	Early	High
Dalsa® Sub	Self-regenerating	Early (97 d)	High
Hatrik Sub	Self-regenerating	Mid (114 d)	Low
Clare 2 Sub	Self-regenerating	Mid (130 d)	Low
Ovaflow Sub	Self-regenerating	Late (140 d)	Low

Waterlogging	Other Traits		
Tolerant	Good heat and frost tolerance, low bloat, large leaf.		
Tolerant	Low growth points. Regenerates from hard seed.		
Poor	Deep taproot, low bloat, poor winter growth. Regenerates from hard seed.		
Poor	Taproot, good early vigour, and winter growth. White colour reduces bitter compounds.		
Tolerant	Good early vigour, susceptible to frost, some salt tolerance.		
Poor	Pioneering species (acidic, dry, low fertility).		
Poor	Susceptible to frost. Regenerates from hard seed.		
Tolerant	Good winter production. Regenerates from hard seed.		
Tolerant	Frost tolerant. Regenerates from hard seed.		
Tolerant	Spring sow – slow establishment. Regenerates from hard seed.		
Moderately tolerant	Upright/hay type		
Moderately tolerant	Common, large leaf, high stolon density		
Moderately tolerant	Large leaf, improved early vigour		
Moderately tolerant	Ladino type, vigour, heat tolerance		
Tolerant	Deep-rooted, drought and salt tolerant. Regenerates from hard seed.		
Poor	Subterranean, burr burial 9		
Tolerant	Yanninicum, burr burial 5		
Poor	Brachycalycinum, burr burial 1		
Poor	Subterranean, burr burial 6		

Medic Identification



Cavalier Spineless Burr



Bindaroo Button



Burr



Caliph Barrel



Paraggio Barrel



Penfield Spineless Barrel



Silver Snail



Seraph Strand



SEED COMPAN



SW9720 Lucerne

Medicago sativa

OUTSTANDING YIELDS AND QUALITY UNDER SALTY CONDITIONS

Seed Treatment

Goldstrike LongLife[®] XLR8™

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

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 & RANGE OF ENVIRONMENTS

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

Seed Treatment Goldstrike LongLife[®] XLR8™

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/WINTER MAXIMISING YEAR ROUND PRODUCTION

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

Seed Treatment Goldstrike LongLife®

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 DEMONSTRATED SUPERIOR QUALITY CHARACTERISTICS IN LABORARTORY TESTS AND ANIMAL FEEDING TRIALS

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

Seed Treatment Goldstrike LongLife® XLR8™

Features & Benefits

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

L71 Lucerne

Medicago sativa

AN ECONOMICAL OPTION WITH STRONG GROWTH IN AUTUMN/ WINTER MAXIMISING YEAR ROUND PRODUCTION

Seed Treatment

Seed Treatment

Goldstrike LongLife®

Goldstrike LongLife[®] XLR8™

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

Features & Benefits

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

L70 Lucerne

Medicago sativa

COST EFFECTIVE, RELIABLE AND ROBUST ALTERNATIVE TO AURORA

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

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

NEW RELEASE

OFFERS A NEW GENERATION OF MULTILEAF LUCERNE WITH IMPROVED PERSISTENCE AND QUALITY

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

Seed Treatment Goldstrike LongLife[®] XLR8™

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 EXCELLENT PERSISTENCE

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

Seed Treatment Goldstrike LongLife® XLR8™

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 LOW SET CROWN, HIGH FORAGE VALUES, RUMINANT PALATABILITY AND PEST & DISEASE RATINGS

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation10-20

Seed Treatment Goldstrike LongLife® XLR8™

Features & Benefits

Rapid regrowth after grazing or cutting Very high grazing tolerance Produces high quality forage Increased grazing rotations 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™

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 HIGHEST NUTRITIVE VALUE IN HAY, SILAGE & CHAFF

kg/ha Seeding Rate Dryland 4-8 High Rainfall/Irrigation 10-20 Seed Treatment Goldstrike LongLife[®] XLR8™

Features & Benefits

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







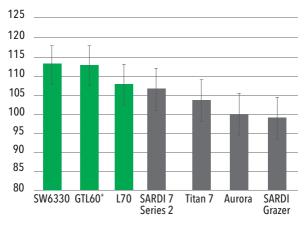
Lucerne Dormancy Characteristics

	DORMANT & SEMI-WINTER DORMANT	
Growth	95% summer 5% winter	
Cutting Schedule	38-42 Days	
Number of cuts	4-5/season	
Crown type	Broad & Crown below ground	
Utilization	Specialist (hay/silage/chaff) Long term hay or pasture mix High rainfall or Irrigation	
Stand Life	7+ years with good management	
Recommended Variety	GTL60", SW6330, ML66 MultiLeaf", L56", Q31"	
	WINTER ACTIVE	
Growth	90% summer 10% winter	
Cutting Schedule	33-35 days	
Number of cuts	5-7/Season	
Crown type	Broader & Lower Crown	
Utilization	Dual purpose (grazing/hay) Longer term pasture or hay Dryland and Irrigation	
Stand Life	5-7 years with good management	
Recommended Variety	L70, L71, Q75®	
	HIGHLY WINTER ACTIVE	
Growth	80% summer 20% winter	
Cutting Schedule	25-28 days	
Number of cuts	7-10/season	
Crown type	Narrow & Higher Crown	
Utilization	Dual purpose (grazing/hay) Short term cropping rotation Dryland and Irrigation	
Stand Life	3-4 years with good management	
Recommended Variety	SW9720, L91®, L92	



TRIAL RESULTS

Multi year, multi site Dorm 6/7 Lucerne dry matter production, kg DM/ha expressed as % of check variety Aurora



No. Trials: 5 / No. Years: 5 / CV: 12.99 / LSD: 0.57

Active material has distinctly dropped off in the recent two years

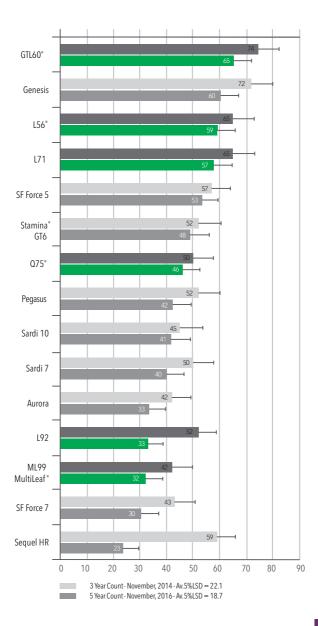




S&W Seed company has taken the term 'grazing tolerant' very seriously with its selection of new lucerne material. The ability to select plant germplasm through a five-year intensive grazing trial has proven critical to giving farmers confidence in new lines coming through the S&W lucerne breeding program. The strength of this trialling model will be replicated in the future with more selections being made with this key grazing tolerance trait.

Percentage of residual plants after three and five years of grazing.

Lucerne stands are grazed to restrict flowering over a three year period to increase pressure on plants.



The L70 Advantage

- L70 Lucerne offer higher winter growth over Aurora
- Superior forage genetics higher leaf to stem ratio.
- Minimum 85 per cent germination standards exceed the current minimum the certified standard for Aurora of only 65 percent.
- These attributes, combined with superior plant genetics makes L70 Lucerne an excellent new alternative to Aurora.

L70 Lucerne offers producers higher returns and allows them to plant with confidence knowing they are covered by the Establishment Guarantee[™] program, whereas common lucernes are not.

Agronomic Features

S&W Seed Company L70 Lucerne has become a leading winter active lucerne variety in the Australian market and an excellent fit for both grazing or forage production. The L70 Lucerne advantage compared to Aurora include the following agronomic characteristics:

Better establishment vigour

Consistently faster to establish, providing a competitive edge. Ideal for undersowing crops or in pasture mixes.

Higher winter production (activity rating of 7 vs. 6)

Faster to recover after cutting or grazing and extends growth to bridge late-autumn and early spring feed gaps.

High resistance to more pests and diseases

Improved persistence across all rainfall zones.

Very good forage quality

Fine stems and superior leaf retention compared to other winter active varieties.

Disease Rating Comparison

VARIETY	L70 Lucerne	Aurora
SPOTTED ALFALFA APHID	HR	HR
BLUE GREEN APHID	HR	HR
PHYTOPHTHORA ROOT ROT	R	R
ANTHRACNOSE	R	MR
BACTERIAL WILT	R	LR
STEM NEMATODE	R	R



LEAF TRAIT COMPARISON

L70 LUCERNE (LEFT) EXHIBITING HIGHER LEAF CARRYING TRAIT COMPARED TO OLDER PLANT GENETICS EXHIBITED IN AURORA (RIGHT)

TRIAL RESULTS

L70 LUCERNE V AURORA YIELD RESULTS & PRICING COMPARISON

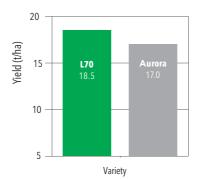
L70 Lucerne offers very competitive pricing to Aurora and therefore similar per hectare input seed costs.

	L70	AURORA
Total yield	18.5 t/ha	17.0 t/ha
Hay returns/ha at \$300t	\$5,550/ha	\$5,100/ha

▲ EXTRA HAY RETURNS \$300 PER HECTARE, PER YEAR

Source: S&W Seed Company, L70 Lucerne Grazing Trial, 2011, Penfield Research Station. Five years, four irrigated sites, 46 cuts.

Locations: Virginia SA, Struan SA, Forbes NSW & Wagga Wagga NSW.



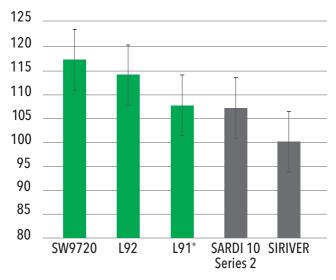


	L70	AURORA
Increased Forage Quality	1	×
Better Disease Profile	1	×
Higher DM Production	1	×
Increased Germination %	1	×
Establishment Guarantee®	1	×

New Highly Winter Active Genetics

The S&W Lucerne breeding program has a long history of developing highly winter active varieties with outstanding forage yields and quality, with robust pest and disease packages. The current commercial highly winter active portfolio available for customers is no exception.

Over the last five years, the S&W lucerne breeding team has developed new lucerne varieties in the 8 to 10 dormancy ranges that consistently outperform current commercial varieties. The graph below shows that customers can produce up to an extra 16% kg DM/ha per year, growing S&W elite varieties, based in the extensive multi-season and multi-site evaluation program.



Multi year, Multi Site Dorm 9 Lucerne dry matter production, kg DM/ha expressed as % of check variety Siriver

No. Trials: 5 / No. Years: 5 / CV: 12.99 / LSD: 0.57



PHYTOPHTHORA ROOT ROT – *PHYTOPHTHORA MEDICAGINIS*

DESCRIPTION: Plants turn yellow, wilt and die. Areas of light brown discolouration up to five centimetres long occur on the taproot up to 30 centimetres below the crown. The

Taproot below the discoloured area will rot away completely.

INCIDENCE: Occurs in Australia, particularly in heavy and/or poorly drained soils and wet conditions. The disease can be severe, killing large numbers of seedlings, scattered plants or large patches in mature seeds. In irrigated stands, plants can survive. Water availability keeps the taproots immediately below the crown alive, but forage yields are reduced.

SPREAD: The fungus spreads rapidly in water over considerable distances.

MANAGEMENT: Use resistant varieties and spell the paddock from lucerne. Do not rotate with chickpeas. Avoid waterlogging irrigated stands on heavy soils.



COLLETOTRICHUM CROWN ROT OR STEM ANTHRACNOSE -COLLETOTICHUM TRIFOLII

DESCRIPTION: Brown-black spots on the stems develop into well defined boat shaped lesions that are up to 25 millimetres long,

dark around the edges with pale centres, and covered in raised dark spots.

The fungus can also enter the crown, causing a blue-black discolouration of five to eight centimetres into the taproot. In mature stands, the dead stems are white or straw coloured with a shepherd's crook appearance. Plant death occurs gradually.

INCIDENCE: Occurs throughout Australia in warm environments with high humidity. It is more severe from late summer to autumn. It is less likely in drier and cooler climates.

SPREAD: Spores spread in warm, wet weather from plant debris and from the crown of infected plants by raindrop splash and harvesting equipment.

MANAGEMENT: Use disease resistant varieties and, if crown rot and anthracnose have been severe, rotate the crop every three years with non-host plants.

Photos supplied by Queensland Department of Primary Industries

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PEA APHID (PA) – ACYRTHOSIPHON PISUM

DESCRIPTION: Green in colour, though some may be yellow or pink. They are four to five millimetres long with dark bands around the antennae and spine-like projections on both

sides at the rear of their bodies. Adults may have wings. Nymphs are smaller and wingless.

DAMAGE: PA sucks sap from the leaves causing wilting, stunting and curling, and odd-shaped plants. The top leaves often turn light green while the lower turn yellow and die. Honeydew excreted by PA makes foliage sticky, affecting hay and pasture quality. PA is a significant carrier of the alfalfa mosaic virus.

INCIDENCE: Common in southern Australia, Western Australia and New South Wales during dry conditions in spring and autumn, although economic levels of damage are rare.

MANAGEMENT: Monitor beneficial insects. Irrigate or graze the stand to reduce PA numbers. In irrigated hay stands, use insecticides if the infestation is heavy.



FUSARIUM WILT – FUSARIUM OXYSPORUM F.SP.MEDICAGINIS

DESCRIPTION: Initially, plants are stunted with wilted shoots and yellow leaves. The infection then bleaches the leaves and stems, eventually causing plant death. Dark

red-brown streaks develop in a layer under the bark at the base of the stem forming a reddish-brown ring in the centre of the root.

INCIDENCE: Fusarium wilt is not common. The Fusarium fungus is widespread but rarely causes wilt. Fusarium wilt has not been identified in New South Wales.

SPREAD: The fungus survives for long periods in decaying plants. It invades small roots or wounds in the taproot during warm, wet weather.

MANAGEMENT: Controlled by crop rotation and resistant varieties.



STEM NEMATODE – *DITYLENCHUS DIPSACI*

DESCRIPTION: Microscopic eelworms are individually difficult to see with the naked eye. Sometimes they mass on or just below the surface to form visible "eel-worm wool."

These can survive desiccation and be transported in hay to start new infestations.

DAMAGE: Plants are dwarfed and distorted, with swollen shoots. Leaves are distorted and clustered towards the ends of stems. Plants die in patches.

INCIDENCE: Occur in southern Australia, common in irrigated stands on river flats, with the greatest severity in the spring.

MANAGEMENT: Sow resistant varieties, plough out badly infested stands and practice crop rotation.



BACTERIAL WILT – CLAVIBACTER MICHIGANENSIS SSP.INSIDIOSUS

DESCRIPTION: Yellow and stunted plants with small leaves are scattered through the stand. The inner bark of the taproot is white, while the exposed root centre is yellowish.

INCIDENCE: Common in southern Australia but has not been reported in the southeast of South Australia. It often occurs in autumn in irrigated stands. It is not found in the dry, inland subtropics of Queensland and northern New South Wales.

SPREAD: The bacteria persist in soil for more than ten years. The disease is spread by stem nematodes and through hay and machinery.

MANAGEMENT: Sow certified seed of resistant varieties.



SPOTTED ALFALFA APHID (SAA) – *THERIOAPHIS TRIFOLII*

DESCRIPTION: Adults are pale yellowishgreen, two millimetres long, with six or more rows of black spots along their backs. Adults may have wings. Nymphs are smaller and wingless.

DAMAGE: Adults and nymphs suck sap from the stems or the undersides of lower leaves. Before that, leaf veins become yellow or white, and the leaves curl and drop off. SAA inject a toxin that can kill seedlings and mature plants.

Honeydew excreted by SAA causes foliage to become sticky and develop a black, sooty mould.

INCIDENCE: Occur throughout Australia in dry conditions, mainly in the spring and autumn.

MANAGEMENT: Plant resistant varieties. Monitor beneficial insects. Irrigate or graze the stand to reduce SAA numbers. In irrigated hay stands, use insecticides if the infestation is heavy.



BLUEGREEN APHID (BGA) -ACYRTHOSIPHON KONDOI

DESCRIPTION: Adults vary from pale green-grey to dark green-blue and are three millimetres long and have tube-like projections on either side at the rear of their

bodies. Adults may have wings. Nymphs are smaller and wingless.

DAMAGE: Adults and nymphs suck sap from the leaves and stems at the growing points, causing shortened internodes between the leaves at the top of each stem, stunted plants, leaf curling, and leaf yellowing. Honeydew excreted by BGA makes the foliage sticky and affects hay and pasture quality. BGA does not kill mature plants.

INCIDENCE: Occur throughout Australia, and most active during the cooler months, particularly dry conditions.

MANAGEMENT: Plant resistant varieties. Monitor beneficial insects. Irrigate or graze the stand to reduce BGA numbers. In irrigated hay stands, use insecticides if the infestation is heavy.

Why Choose a S&W Lucerne?

Range of winter activity, with dormancy available from 3-10

Elite forage yields and quality



Rapid regrowth after cutting or grazing

High resistance to pests and diseases

Suited to a variety of environmental conditions



Increased grazing tolerance and persistence

Flexibility in a mixed farming operation

S&W Seed Company Establishment Guarantee Program

FORAGE HERBS & BRASSICA

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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™



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Spring

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

SHORT TERM CHICORY

Seeding Rate

Dryland High Rainfall/Irrigation

Features & Benefits

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

kg/ha

3

5

3

5

Seed Treatment

Seed Treatment

XLR8™

None / XLR8[™] optional

Balance[®] Chicory **Chicorium intybus**

TRUE PERENNIAL-TYPE CHICORY

kg/ha Seeding Rate Dryland High Rainfall/Irrigation

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

kg/ha **Seeding Rate** Dryland High Rainfall/Irrigation

Features & Benefits

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

3

5







Seed Treatment None / XLR8[™] optional



Subzero Hybrid Forage **Brassica** napus

LONG SEASON FORAGE BRASSICA WITH COLD TOLERANCE

5

8

Seeding Rate kg/ha Dryland High Rainfall/Irrigation

Seed Treatment XI R8TM

Features & Benefits

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



Ranger[®] Plantain Plantago lanceolata

PERENNIAL GRAZING PLANTAIN

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

Seed Treatment XI R8™

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**

kg/ha Seeding Rate Drvland 2-8 High Rainfall/Irrigation 8-20 Seed Treatment XLR8™ optional

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

kg/ha

5

8

Seeding Rate

Dryland High Rainfall/Irrigation

Seed Treatment Fungicide / XLR8™ optional

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 QUALITY FLORAL RESOURCES

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

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**

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

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









Seed Treatment XLR8[™] optional

Seed Treatment

XLR8™ optional

Choose your Forage				
Product	Species	Сгор	Time to graze (from emergence)	Lifespan
Bouncer	Hybrid forage brassica	Leafy turnip	6 weeks	3-6 mths
Subzero	Hybrid forage brassica	Leafy rape	8-9 weeks	6-18 mths
Compass	Chicory	Short-term	12+ weeks	12-18 mths
Balance	Chicory	Perennial	12+ weeks	2-3 yrs
Ranger	Plantain	Perennial	12+ weeks	2+ yrs
Rebound	Millet	Multi-cut	10+ weeks	3-6 mths

Case Study: Calculating crop requirements and making it pay!

Scenario

I have 100 young steers that I want to feed from December to February on a crop of Subzero Forage Brassica and Rebound Millet.

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

Assumptions

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

Calculations

Step 1: How much crop?

Intake = 0.8 x 9 = 7.2 kg DM/head/day 7.2 kg + 30% wastage = 9.4 kg DM/head/day 9.4 kg x 100 head = 940 kg DM/day 940 kg x 100 days = 94 tonne to fully feed all steers 94 t ÷ 8t/ha supplied = 11.75 ha required

Step 2: What's the cost?

Knockdown herbicide/insecticide \$16 Lime & fertiliser \$350 Cultivation/contractor \$300 Seed \$84 Total cost = \$750/ha **Step 3: What have I made?** Stocking rate = 100 steers ÷ 11.75 ha = 8.5 steers/ha

Gaining 1 kg/head/day for 100 days = 850 kg/ha 850 kg x 4.00/kg = 3,400.00/ha Total potential income = 3,400/ha



TROPICAL GRASSES



Gatton Panic Grass

Panicum maximum

SUBTROPICAL GRASS ADAPTABLE TO A WIDE VARIETY OF SOIL TYPES

Seeding Rate kg/ha High Rainfall/Irrigation 6-12

Seed Treatment Goldstrike XLR8™

Features & Benefits

Suitable to a variety of soil types Moderately tolerant to drought Suited for grazing or cutting for hay Adaptable, clumping type Long term pasture option Highly productive in good fertility

Bambatsi Panic Grass Panicum maximum

SUBTROPICAL GRASS WELL SUITED TO HEAVY SOILS

Seeding Rate kg/ha High Rainfall/Irrigation 6-12

Seed Treatment Goldstrike XLR8™

Features & Benefits

Cold tolerant and drought tolerant High forage quality High levels of animal performance Reliable grass for heavy soils Tolerant to short periods of waterlogging



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Premier Digitaria Digitaria eriantha

SUBTROPICAL GRASS WITH HIGH PALATABILITY AND INTAKE POTENTIAL

Seeding Ratekg/haHigh Rainfall/Irrigation6-12

Seed Treatment Goldstrike XLR8™

Features & Benefits

Persists well on light soils Good acid tolerance Highly palatable Fine stems result in high animal intake Clumping type, allows for companion species to thrive Excellent feed conversion rates

TROPICAL GRASSES

Long term perennial grass base for a pasture Grows in a range of conditions Later maturity provides longer window of production

Capricorn[®] Rhodes Grass Chloris gayana

LATER MATURING SUBTROPICAL FORAGE RHODES GRASS

Seeding Rate kg/ha High Rainfall/Irrigation 6-12

Features & Benefits

Later maturing than Katambora Finer stems Vigorous regrowth from grazing and cutting for hay Highly palatable for grazing Quicker drying for hay cutting due to finer stems Good salt tolerance

Callide Rhodes Grass

Chloris gayana

IMPROVED SUBTROPICAL RHODES GRASS VARIETY

Seeding Rate kg/ha High Rainfall/Irrigation 6-12

Seed Treatment Goldstrike XLR8™

Features & Benefits

Drought tolerant Later flowering than Katambora Improved palatability More productivity than Katambora Greater palatability gives better feed conversion

Bisset Creeping Bluegrass

Bothriochloa insculpta

HIGH QUALITY SUBTROPICAL GRASS WITH **EXCELLENT GROUND COVER**

Seeding Rate High Rainfall/Irrigation 6-12

Features & Benefits

Highly palatable Excellent drought tolerance Grazing tolerant





Seed Treatment

Goldstrike XLR8™

kg/ha

Seed Treatment Goldstrike XI R8™



FORAGE SORGHUM & MILLET

SEED COMPAN



MID-MATURING SORGHUM X SUDAN FORAGE

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation15-20

Seed Treatment Enhanced or Standard

Features & Benefits

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

FlexiGraze[™] Forage Sorghum Sudan x Sorghum Sudan



SUDAN X SUDAN GRASS HYBRID -PHOTOPERIOD SENSITIVE

Seeding Ratekg/haMarginal dryland3-5Dryland8-15High Rainfall/Irrigation20-30

Seed Treatment Enhanced or Standard

Seed Treatment

Enhanced or Standard

Features & Benefits

Ultra late flowering Grazing flexibility and hay production



Calibre BMR[®] Forage Sorghum Sorghum x Sudan grass hybrid

EARLY TO MID-MATURING BMR FORAGE SORGHUM

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation15-20

Features & Benefits

12 gene BMR Highly digestible forage Excellent yield potential Increased livestock weight gain High quality dry matter

Sweet As Forage Sorghum Sorghum bicolor hybrid

SWEET FORAGE SORGHUM HYBRID

Seeding Ratekg/haDryland4-8High Rainfall/Irrigation15-20

Seed Treatment Enhanced or Standard

Features & Benefits Large seed size Late maturing High sugar content

Rebound Forage Millet Echinochloa esculenta

Echinochloa esculenta

FAST GROWING SUMMER FORAGE MILLET Annual Spring & Summer Option

Seeding Ratekg/haDryland10-15High Rainfall/Irrigation30-40

Seed Treatment None/XLR8™ optional

Features & Benefits

Fast growing summer grass Safe, good quality feed Excellent regrowth after cutting Plant on 14 degrees Celsius soil temperatures and rising



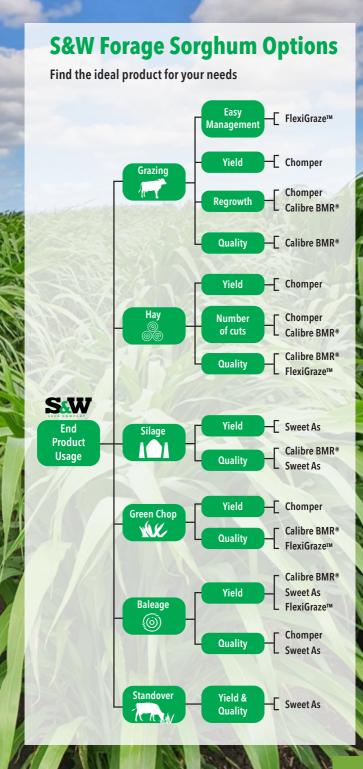




Choose Your Forage Sorghum...

Product	Chomper	Calibre BMR®	FlexiGraze™	Sweet As
Intensive Grazing	Good	Excellent	Excellent	Satisfactory
Range Grazing	Excellent	Excellent	Excellent	Good
Нау	Good	Excellent	Excellent	Satisfactory
Silage	Bale wrap	Bale wrap	Bale wrap	Pit/Bunker
Standover	Satisfactory	Satisfactory	Satisfactory	Excellent
Feed Quality	Good	Excellent	Good	Excellent
Comments	High forage yield	Best digestibility	Grazing flexibility	Quality silage

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FlexiGraze[™] Forage Sorghum For Hay And Grazing

During wet weather or when new cattle spend time in the yards, Kody Kajewski grows forage sorghum on his property near Dalby, Queensland, to sell to the local hay market and feed his own stock.

Despite having the option of irrigation, the summer growing season in 2021 was so wet he didn't require it.

In his selection process, Kody looks for fine stem varieties that produce as much bulk as possible off the paddock. In past summers, "Nudan" has been the mainstay of his program. Kody allocated a small spot for some "FlexiGraze™" to go in beside.

In late November, planting began with decent early rains leading to a successful start, and wet conditions continued throughout the growing season. The first cut was baled in February with a lucky break in the weather, allowing the 4x4 round bales to be taken off the paddock and stored.

In the first cut yield data, "Nudan" led, but the second cut later in the season was where things got interesting.

"The FlexiGraze[™] recovered quickly from the cutting and shot away again with lots of tillers," claimed Kody. On the 2nd cut, he found the FlexiGraze[™] had evened up the score. "Best of all the FlexiGraze[™] didn't push out all the heads as the Nudan had," said Kody. The FlexiGraze[™] demonstrated the "photo period sensitivity" trait of this variety.

"Interestingly, we also find the cows will sniff out a bale of FlexiGraze[™] over the Nudan when we put them in the hay feeder. They really demolish it," Kody noted. "We also found this on the piece we grazed where the cattle chewed it right to the ground, even when there was green grass on the edges of the paddock."

76 FORAGE SORGHUM & MILLET

GRAIN SORGHUM

SEED COMPANY



Tanami Grain Sorghum Sorghum bicolor hybrid

MEDIUM-QUICK MATURITY RED GRAIN SORGHUM **SPRING & SUMMER SOWN FEED GRAIN**

- Medium quick maturity red grain sorghum (M)
 - Low tillering trait with excellent flag leaf separation



Offers residual herbicide rotation options in cropping program



Best suited for stored soil moisture or "watered up" irrigation situations due to lower tillering trait

Seeding Rate

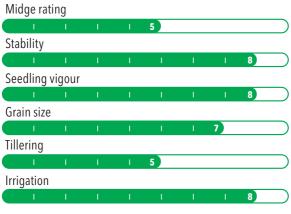
kg/ha 2.5-5 Dryland 4-6 High Rainfall/Irrigation

Seed Treatment Enhanced

Features & Benefits

Highly drought tolerant Midge rating 5 Semi-Compact head type High staygreen and low tillering habit for improved drought tolerance and standability Good head exertion allowing easy harvest

Rating scale



Rating scale: 1-9 1 - not recommended

9 - excellent

Gibson Grain Sorghum

Sorghum bicolor hybrid



MEDIUM MATURITY RED GRAIN SORGHUM SPRING & SUMMER SOWN FEED GRAIN



Medium maturity red grain sorghum



Moderate tillering with larger grain size & higher grain test weight



Offers residual herbicide rotation options in cropping program



Will benefit from late rain or supplementary irrigation to maximise grain size

Seeding Rate	kg/ha
Marginal dryland	2.5-5
Dryland	4-6

Seed Treatment Enhanced

Features & Benefits

Good head exertion Drought tolerant Midge 6 rating Semi-Compact head type Highly adapted to most grain sorghum growing regions

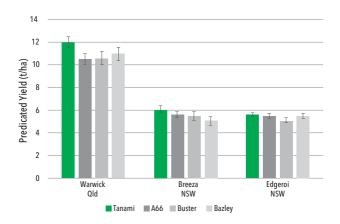
Rating scale



9 - excellent

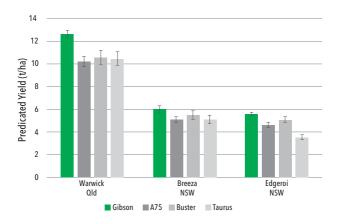
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TRIAL RESULTS



Tanami Grain Sorghum

Gibson Grain Sorghum



Data collected as part of the S&W Seed Company Australia Research and Development program

SUNFLOWER

SEED COMPAN



SuperSun 66 Sunflower Healianthus annuus

HYBRID POLYUNSATURATED BLACK SEEDED SUNFLOWER



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)

Seeding Rate

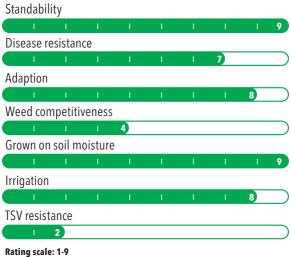
Marginal dryland Dryland High Rainfall/Irrigation

Seed Treatment Cosmos Insecticide

kernals/ha

25,000-35,000 35,000 -45,000 55,000-65,000

Rating scale



1 - not recommended

9 - excellent

SOWSMART® BLENDS

SEED COMPAN

SOWSMART® BLENDS



Planting Guide

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



Perennial HR SOWsmart[®] Blend

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Min Rainfall (mm) Soil Type	650 ht & Heavy
	25-30 kg/ha
Usage Pasture	production
Impact [®] Diploid Long Rotation Ryegrass	50%
Shootout Perennial Ryegrass	30%
Casper White Clover Goldstrike®	10%
Riesling White Clover Goldstrike®	10%

Southern Horse HR SOWsmart® Blend

Min Rainfall (mm) Soil Type Seeding Rate Usage	Light & H 12-18 I Southern equine pas	kg/ha
Enduromax [®] Balansa Clo Convoy [®] Summer Active Drylander Diploid Perent L71 Lucerne Goldstrike X Hatrik [®] Sub Clover Golds Impact [®] Diploid Long Ro Matua Prairie Grass	Cocksfoot Goldstrike® nial Ryegrass LR8™ :trike®	5% 10% 25% 10% 5% 30% 15%

Southern Horse LR SOWsmart® Blend

Min Rainfall (mm) Soil Type Seeding Rate		400 Light 12-18 kg/ha
Usage	Southern equi	ne pastures
Enduromax [®] Balansa Clo	ver Goldstrike®	25%
Dalsa [®] Sub Clover Goldstrike [®]		5%
Drylander Diploid Perennial Ryegrass		30%
Hatrik [®] Sub Clover Golds	trike®	10%
Origin Mediterranean Fes	scue	20%
Holdfast Erect Winter Acti	ve Phalaris	10%





Sowsmart[®] Blend

-		650 Heavy 5 kg/ha
Usage	Northern equine p	astures
Bambatsi Panic Goldstrike	e XLR8™	20%
Enduromax [®] Balansa Clover Goldstrike [®]		10%
GTL60® Lucerne Goldstrike XLR8™		20%
Katambora Rhodes Grass Goldstrike XLR8™		25%
Matua Prairie Grass		25%



Northern Horse LS SOWsmart[®] Blend

•		650 Light 5 kg/ha
Usage	Northern equine p	astures
Enduromax [®] Balansa Clo	over Goldstrike®	10%
Gatton Panic Goldstrike XLR8™		35%
L71 Lucerne Goldstrike XLR8™ 2		20%
Premier Digitara Goldstri	ke XLR8™	35%



Grazier SOWsmart[®] Blend

Min Rainfall (mm)	400
Soil Type	Light & Heavy
Seeding Rate	18-25 kg/ha
Usage Past	ure production
Enduromax [®] Balansa Clover Goldstrik	te® 25%
Dalsa [®] Sub Clover Goldstrike [®]	5%
Drylander Diploid Perennial Ryegrass	30%
Hatrik [®] Sub Clover Goldstrike [®]	10%
Origin Mediterranean Fescue	20%
Holdfast Erect Winter Active Phalaris	10%

Persistor SOWsmart[®] Blend

Min Rainfall (mm) Soil Type Seeding Rate Usage	Suitable to 18-25 Pasture prod	kg/ha
Australis [®] Prostrate Summer Ad Cavalier Spineless Burr Medic (Border Balansa Clover Golstrike Convoy [®] Summer Active Cocks Dalsa [®] Sub Clover Goldstrike [®] Hatrik [®] Sub Clover Goldstrike [®]	Goldstrike® 3® foot	15% 10% 10% 15% 20% 10%
Origin Mediterranean Fescue		20%

Winter Max SOWsmart[®] Blend

Min Rainfall (mm)	450
Soil Type	Suitable to most
Seeding Rate	23-35 kg/ha
Usage	Pasture production
Sorrento Diploid Italian Ryegrass	40%
Maheno Tetraploid Italian Ryegra	ass 30%
Turbo Persian Clover Goldstrike®	20%
Baler Balansa Clover Goldstrike®	10%

Winter Express SOWsmart[®] Blend

Min Rainfall (mm)450Soil TypeSuitable to mostSeeding Rate23-35 kg/haUsagePasture grazing/Hay and silageLoader Tetraploid Annual Ryegrass70%Turbo Persian Clover Goldstrike®20%Baler Balansa Clover Goldstrike®10%









Winter Feed SOWsmart[®] Blend

Min Rainfall (mm)350Soil TypeSuitable to mostSeeding Rate23-35 kg/haUsagePasture grazing/Hay and silageKoga Tetraploid Annual Ryegrass70%Turbo Persian Clover Goldstrike®30%



HDL SOWsmart[®] Blend

Min Rainfall (mm)	350
21	Suitable to most
Seeding Rate	20-25 kg/ha
Usage Pas	sture production
Cavalier Spineless Burr Medic Golds	trike® 30%
Border Balansa Clover Goldstrike®	20%
Zulumax [®] Arrowleaf Clover Goldstrik	ke® 25%
SARDI Persian Clover Goldstrike®	25%



Bloat Fighter SOWsmart[®] Blend

Min Rainfall (mm) Soil Type Seeding Rate Usage Compass Chicory® L71 Lucerne Goldstrike XLR8™

350 Light & Heavy 4-6 kg/ha Pasture production 30% 70%

Medic Haygraze LR SOWsmart[®] Blend

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Min Rainfall (mm)	350
Soil Type Suitable to me	
Seeding Rate 3-10 kg/k	
Usage Pa	sture production
Cavalier Spineless Burr Medic Golds	strike [®] 40%
Bindaroo Button Medic Goldstrike®	
Silver Snail Medic Goldstrike®	
SARDI Persian Clover Goldstrike®	
Enduromax [®] Balansa Clover Goldst	rike [®] 10%

Medic Oversow SOWsmart® Blend

Min Rainfall (mm)	350
Soil Type Suitable to mo	
Seeding Rate 3-10 kg/ha	
Usage Pastur	e production
Cavalier Spineless Burr Medic Goldstrike®	
Bindaroo Button Medic Goldstrike®	
Silver Snail Medic Goldstrike®	
Penfield Spineless Barrel Medic Goldstri	ke® 25%

Spring Silage SOWsmart[®] Blend

Min Rainfall (mm) Soil Type Seeding Rate Usage S&W Overland™ Forage Oats Forage Peas 350 Suitable to most 120-180 kg/ha Fodder conservation 50% 50%







Sowsmart® Blend

Min Rainfall (mm)	400
Soil Type	Suitable to most
Seeding Rate	35-40 kg/ha
Usage	Cover crop/Interrow
Convoy [®] Summer Active Cocksfe	oot 20%
Dryland Diploid Perennial Ryegrass	
Wimmera Annual Ryegrass	40%



Irrigated Row SOWsmart[®] Blend

Min Rainfall (mm)		700
Soil Type	Suitable t	o most
Seeding Rate	40-50) kg/ha
Usage	Cover crop/In	terrow
Convoy [®] Summer Active Cocksfoot		20%
Impact [®] Diploid Long Rotation Ryegrass		60%
Casper White Clover Goldstrike®		10%
Riesling White Clover Goldstrike	9 [®]	10%



Green Manure Row SOWsmart® Blend

Min Rainfall (mm)	400
Soil Type	Suitable to most
Seeding Rate	140-160 kg/ha
Usage	Cover crop/Interrow
Forage Peas	20%
Faba Beans	20%
S&W Overland™ Forage Oats	50%
Timok Vetch	10%

Regen Row SOWsmart[®] Blend

SW
SOWsmart*
2

Min Rainfall (mm) Soil Type	650 Suitable to most
Seeding Rate	35-40 kg/ha
Usage Co	ver crop/Interrow
Bindaroo Button Medic Goldstrike®	10%
Cavalier Spineless Burr Medic Goldstrike®	
Enduromax [®] Balansa Clover Goldstrike [®]	
Wimmera Annual Ryegrass	70%

WINS Row SOWsmart® Blend

Min Rainfall (mm)	650
Soil Type	Light & Heavy
Seeding Rate	80-160 kg/ha
Usage	Cover crop/Interrow
Kraken Forage Barley	80%
Smart Radish Fungicide Treated	3%
Timok Vetch	17%

Dryland Medic Row Blend SOWsmart[®] Blend

Min Rainfall (mm)	550
Soil Type	Suitable to most
Seeding Rate	35-40 kg/ha
Usage Cov	er crop/Interrow
Convoy [®] Summer Active Cocksfoot	20%
Drylander Diploid Perennial Ryegras	s 40%
Cavalier Spineless Burr Medic Golds	trike [®] 20%
Silver Snail Medic Goldstrike®	20%



SCV



Source Source Row Blend Source Row Blend

Min Rainfall (mm) Soil Type Seeding Rate	550 Suitable to most 35-40 kg/ha
Usage	Cover crop/Interrow
Hatrik [®] Sub Clover Goldstrike [®]	10%
Enduromax [®] Balansa Clover Gol	dstrike [®] 10%
Convoy [®] Summer Active Cocksfoot	
Dalsa [®] Sub Clover Goldstrike [®]	10%
Drylander Diploid Perennial Rye	grass 50%



Pollinator SOWsmart® Blend

Min Rainfall (mm) Soil Type Seeding Rate	650 Light & Heavy 40-60 kg/ha
Usage	Cover crop/Interrow
Bee-Ready Brassica™	13%
Presto [®] Vetch	50%
Smart Radish Fungicide Treated	13%
Samurai White Mustard™	12%
Enduromax [®] Balansa Clover Go	ldstrike® 6%
SARDI Persian Clover Goldstrike	® 6%



Multi Species Soil Builder SOWsmart[®] Blend

Min Rainfall (mm) Soil Type Seeding Rate Usage	450 Suitable to most 50-65 kg/ha Cover crop/Interrow
Compass Chicory Presto® Vetch Ranger Plantain XLR8™ Smart Radish Fungicide Treated Subzero Hybrid Forage Brassica Loader Tetraploid Annual Ryegr	4% ass 10%
SARDI Persian Clover Goldstrike White Quinoa S&W Overland™ Forage Oats	»® 4% 4% 50%

Custom Blend includes Sorrento, Loader, Turbo and Cavalier

Seed size chart

	Species	Seeds per kg	
	Lucerne		
	All	440,000	
	Clover & Pasture Leg	umes	
	Medic Strand	400,000	
27	Medic Button	250,000	
	Medic Barrel	260,000	Carrow Star - Martin - La
	Medic Snail	130,000	HORIZAN ANDA
	Medic Spineless Burr	300,000	STOP IN STOP
8	Sub Clover	120,000	L. C. BAR
	White Clover	1,600,000	and and and
	Red Clover Diploid	500,000	
191	Red Clover Tetraploid	295,000	Statute 1
	Balansa	1,450,000	A Shades a
	Persian Soft	1,200,000	The allow a state
R	Persian Hard	1,400,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	Arrowleaf	880,000	PARENCE U
	Crimson	308,000	11. 300
100	Rose	331,000	A she was to
	Berseem	326,000	LES NEWS
ł	Strawberry	766,000	Stal 1/2
N IN	Gland	1,430,000	STATE OF THE STATE
S	Bladder	500,000	STUDE .
10	Serradella Yellow	196,000	N. Co
Y	Biserrulla	1,000,000	MAN / Frank
ŝ	Pasture Grasses		WY CAR
2	Ryegrass Tetraploid	250,000	ANV 2 B
	Ryegrass Diploid	460,000	11 Carton
0	Tall Fescue	420,000	WARE
K	Phalaris	650,000	663
	Cocksfoot	1,300,000	VER TEL
1000	Prairie Grass	136,000	122-3
1	37 M X V 100 1 1 10	114 A 16 F. A WIN II. 198 B.A	and the second second

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



Seed size chart

Species	Seeds per kg
Forage Herbs & Bras	sica
Plantain	500,000
Chicory	830,000
Forage Brassica	300,000
Smart Radish	55,000
Winter Legumes and	Cereals
Vetch	22,000
Wheat	28,000
Triticale	30,000
Oats	28,000
Field pea	6,600
Barley	30,800
Forage Sorghums &	Millet
Millet	180,400
Sudan Grass	50,000
Sweet Sorghum	30,000
Sorghum X Sudan	30,000
Tropical Grasses & Le	gumes
Bambatsi	1,075,300
Premier	2,325,600
Gatton	1,470,600
Narok	877,200
Gayndah	350,900
Biloela	534,800
Callide	3,030,300
Katambora	4,166,700
Kikuyu	410,000
Paspalum	704,000
Puccinellia	5,000,000
Stylo	264,000
Centro	33,000
Cow Pea - Ebony	8,000
Cow Pea - Red Caloona	15,000
Lablab	6,000

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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.

Treatment Reference Guide

	Micro Nutrient	Rhizobia Inoculation	Apron®XL Fungicide*
Goldstrike®	1	1	1
Goldstrike LongLife®	1	1	1
Goldstrike LongLife® XLR8™	1	1	1
Goldstrike XLR8®	1	1	1
(LR8™			
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 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.

Lo te	ongLife sted**	Poncho [®] Plus Insecticide	Gaucho [®] Insecticide	Film coat only
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Treatment Reference Guide

		SEED TREATMENT				
	ncho® Plus nparison Chart	Poncho® Plus Broadleaf Pasture	Poncho [®] Plus Grass Pasture	Gaucho®		
5	Redlegged Earth Mite	1	1	1		
enefit	Lucerne Flea	1	1			
aims B	Blue Oat Mite	1	1	1		
Registered Claims Benefits	Cutworm	1	1			
legiste	Yellowheaded Cockchafer		1			
÷	African Black Beetle		1			
	May offer Stress Shield™ benefits	1	1	1		
s	Up to four weeks systemic protection for emerging seedlings	J	1	J		
Benefits	Protection against some soil pests	1	1			
	Low impact on beneficial species	1	1	1		
	Targeted chemical placement	1	1	1		



			_		
BARES	SEED AND FOLIAR	SPRAY	_		
Chlorpyrifos	Ground Spray Dimethoate	SP Foliar			
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For technical advice please contact your local S&W Territory Manager

Michael Christensen

Territory Manager - Wide Bay Burnett, South East, Central, Far North Old & NT michaelchristensen@swseedco.com 0430 821 029

Dan Sweeney

Territory Manager - North Coast NSW & Hunter Valley dansweeney@swseedco.com 0429 146 817

Hugh Graham

Territory Manager - Southern NSW hughgraham@swseedco.com 0427 255 292

Millie Moore

Territory Manager - SA & North West Vic milliemoore@swseedco.com 0438 574 907

Shane Kable

Technical Services Territory Manager Upper Hunter & North West NSW & WA shanekable@swseedco.com 0427 551 395

Gavin Milne

Technical Services Territory Manager New England NSW gavinmilne@swseedco.com 0447 966 704

Dean Lombardozzi

Southern Regional Manager deanlomb@swseedco.com 0497 499 087

Jack Edwards

Northern Regional Manager jackedwards@swseedco.com 0419 995 418



Plant with confidence

with S&W Establishment Guarantee*



S&W Seed Company Australia 14-16 Hakkinen Road Wingfield SA 5013 T +61 (0) 8 8445 1111 info@swseedco.com.au swseedco.com.au