

VARIETY	MATURITY	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
		Dryland	High Rainfall/ Irrigation			
TEMPERATE GRASSES (AUTUMN & SPRING SOWN)						
RYEGRASS, PERENNIAL - LOLIUM PERENE						
Valley •	Very Early	8 - 14	15 - 20	550	Versatile	Valley is Fast establishing with excellent Winter production drought tolerant, Summer dormant. KV Type.
Kangaroo	Very Early	8 - 14	15 - 20	550	Versatile	Good Autumn, Winter, Spring growth, Summer dormant.
Meridian	Very Early	8 - 14	15 - 20	550	Versatile	High Winter, early Spring production.
Drylander •	Early - Mid	8 - 14	15 - 20	550	Versatile	Excellent Autumn, Winter, Spring production, persists in hotter dryer environments. Better option to Vic Rye.
Victorian	Early	8 - 14	15 - 20	550	Versatile	Good Autumn, Winter, Spring growth, Summer dormant.
Shootout •	Mid	10 - 15	20 - 25	700	Versatile	Highly persistent, excellent Autumn, Winter & Summer production, with excellent rust tolerance.
Nui	Mid	10 - 15	20 - 25	700	Versatile	Improved Ruanui with more Winter growth.
Extreme	Mid	10 - 15	20 - 25	700	Good Fertility	Excellent Summer, Autumn production, good heat tolerance, suited to irrigation.
Arrow	Mid - Late	10 - 15	20 - 25	700	Good Fertility	Replacement for Bronsyn, late Winter early Spring growth.
Ansa •	Mid - Late	10 - 15	20 - 25	700	Good Fertility	Ansa is a high-performance perennial with very good annual production. It's real strength is in Winter, which makes it first choice in its maturity.
One 50	Late	10 - 15	20 - 25	700	Good Fertility	Late flowering Diploid with high quality late Spring feed.
Alto	Late	10 - 15	20 - 25	700	Good Fertility	Late flowering, high tiller density, late Spring quality.
Optima (Tetraploid) •	Late	10 - 15	20 - 30	700	High Fertility	Low Endophyte Tetraploid, Good heat tolerance with long season Production, Densely Tillered. Excellent option for high rainfall / irrigation.
Bealey (Tetraploid)	Late	10 - 15	20 - 30	700	High Fertility	Very late flowering Tetraploid, high feed quality and persistence.
PERENNIAL - LONG ROTATION						
Revolution	Mid	10 - 15	20 - 25	700	Good Fertility	Good palatability with good growth rates.
Banquet 2 (Tetraploid)	Late	10 - 15	20 - 30	700	High Fertility	Persistent, high yielding, high quality, suited high production systems.
Impact •	Late	10 - 15	20 - 25	700	Good Fertility	Densely tillered, fine leaved, reduced aftermath heading.
Matrix	Late	10 - 15	20 - 25	700	Good Fertility	Densely tillered, fine leaved, productive type.

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ITALIAN - LOLIUM MULTIFLORUM

Dargo	Early	10 - 15	20 - 25	700	Good Fertility	Early Italian ryegrass, good yields.
Eclipse	Mid	10 - 15	20 - 25	700	Good Fertility	High quality Winter feed, high total production.
Diplex (Diploid) •	Late	10 - 15	20 - 25	700	Good Fertility	Later maturing, fast establishing, rapid regrowth, retains feed quality in late Winter & Spring.
Icon (Diploid) •	Late	10 - 15	20 - 25	700	Good Fertility	New Release, Late Maturing with exceptional dry matter production. Icon offers long season high quality feed to surpass current Italian grasses.
Jackpot (Diploid) •	Very Late	10 - 15	20 - 25	700	Good Fertility	Jackpot's late heading date prolongs feed quality through the season. It has out yielded Icon by an outstanding 26% and Knight by 9% quality in Spring giving a greater opportunity to increase overall total production.
Concord	Late	10 - 15	20 - 25	700	Good Fertility	High producing, good cool season production.
Crusader	Late	10 - 15	20 - 25	700	Good Fertility	Fast establishing, very productive, high yields.
Sonik	Late	10 - 15	20 - 25	700	Good Fertility	Fine leaved, densely tillered late heading diploid Italian.
Hulk	Late	10 - 15	20 - 25	700	Good Fertility	Good Winter and late Spring growth, good Spring quality.
Warrior	Late	10 - 15	20 - 25	700	Good Fertility	It is a medium term Italian Ryegrass selected for high production, Summer heat tolerance.
Feast II (Tetraploid)	Late	10 - 15	20 - 25	700	Good Fertility	Good short term production, Winter active.
Jeanne (Tetraploid) •	Late	10 - 15	20 - 25	700	Good Fertility	Jeanne maintains excellent quality and has very low aftermath heading. It combines high sugars with excellent heat tolerance and good disease resistance.
Mona (Tetraploid) •	Very Late	10 - 15	20 - 25	700	Good Fertility	Very late flowering +28 days which give excellent long season production, increased yield advantage over Jeanne Ryegrass by 34%.

HYBRID

Barberia	Mid - Late	10 - 15	20 - 25	700	Good Fertility	Very fast establishing, suited to oversowing, good Winter growth.
Jeta •	Late	10 - 15	20 - 25	700	Good Fertility	Cross between perennial (80%) and (20%) Italian ryegrass. Increased Winter production with longevity of a perennial.
Maverick Gold	Late	10 - 15	20 - 25	700	Good Fertility	Improved palatability, high production, heat tolerant.

ANNUAL - LOLIUM RIGIDIUM

Wimmera	Early	5 - 15	5 - 15	250	Versatile	Self regenerating, vigorous early growth.
SafeGuard	Early	5 - 15	5 - 15	250	Versatile	Resistant to annual ryegrass toxicity, self regenerating, vigorous variety.

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ANNUAL ITALIAN - LOLIUM MULTIFLORUM / WESTER WOLDS

Tetila (Tetraploid)	Early	15 - 20	20 - 25	550	Versatile	Similar to Tama, vigorous early Winter production, better rust tolerance.
Tetrone (Tetraploid) •	Mid	15 - 20	20 - 25	350	Versatile	Tetraploid improved sister line to Tetila, early vigour, high dry matter production. Main Italian Ryegrass used in broadacre dryland situations.
Pronto	Mid	15 - 20	20 - 25	550	Versatile	Pronto is the traditional annual ryegrass, best used as a break crop to carry stock through Winter.
Surrey Nova	Mid	15 - 20	20 - 25	550	Versatile	Surrey Nova has improved rust tolerance and will tolerate moderately acidic soils. Surrey Nova offers exceptional quality for hay cutting due to thin stems.
Rocket (Tetraploid) •	Mid	15 - 20	20 - 25	550	Versatile	Large leaf, upright, mid maturity, early vigour, Winter active.
T Rex (Tetraploid)	Mid	15 - 20	20 - 25	550	Versatile	Fast establishing annual ryegrass. Quick to first grazing.
Winterstar 2 (Tetraploid)	Mid	15 - 20	20 - 25	550	Versatile	Improvement on Winterstar. Good Winter growth.
Jivet (Tetraploid) •	Late	15 - 20	20 - 25	550	Good Fertility	Jivet is a late season variety which will carry through the latest of seasons and respond well to late season rainfall. Excellent feed quality with high dry matter production.
Maximus (Tetraploid)	Late	15 - 20	20 - 25	550	Versatile	Late season type with good heat tolerance and rust resistance.

FESTULOLIUM - (MEADOW FESCUE X LOLIUM ITALIAN RYEGRASS)

Perun Festulolium •		15 - 20	20 - 25	550	Versatile	Explosive seedling vigour, incorporating 80% Italian Ryegrass with 20% meadow fescue. Nil endophyte, high Winter production. High water use efficiency.
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TIMOTHY - PHELIUM PRATENSE

Viking			3 - 5	700	Good	Early flowering, densley tillered, adapted to closer grazing.
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VARIETY	SUMMER DORMANCY	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
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COCKSFOOT - DACTYLIS GLOMERATA

Currie	Moderate	4 - 6	6 - 10	350	Versatile	Tolerates dry conditions, drought tolerant, Winter producer responds to Summer rain.
Kasbah	High	4 - 6	6 - 10	350	Versatile	Summer dormant, drought resistant, very good Autumn, early Winter growth.
Ambassador •	Active	4 - 6	6 - 10	500	Versatile	Good seedling vigour, total production better than Porto, high palatability, high persistence.
Porto	Active	4 - 6	6 - 10	500	Versatile	Responds to high rainfall, more palatable than Currie, good persistence.
Wana	Active	4 - 6	6 - 10	500	Better soils	Better Summer growth than Porto, broader seasonal production.
Kara	Active	4 - 6	6 - 11	500	Better soils	Erect type, highly palatable, productive, late maturing.

VARIETY	FLOWERING	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
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TALL FESCUE - FESTUCA ARUNDINACEA

Demeter - Continental	Very early	10 - 15	20 - 25	600		Suited to Summer, Autumn rainfall, slow to establish, persistent continental type.
Dovey - Continental	Very early	10 - 15	20 - 25	600	*	Fast establishing, Summer active continental type.
Quantum - Continental	Very early	10 - 15	20 - 25	600	*	More palatable, soft leafed, continental type.
Jessup Max P - Continental	Mid - late	10 - 15	20 - 25	600	*	Vigorous seedling, Summer and Winter growth, continental type, Novel Endophyte.
Advance - Continental	Mid - late	10 - 15	20 - 25	600	*	Improved seedling vigour, high dry matter production, continental type.
Martin 2 - Continental •	Late	10 - 15	20 - 25	600	Tolerates infertile, acid, some salts	Soft leaf, maximizes Summer to Autumn growth potential, high nutritive value persistent continental type.
Vulcan 2 - Continental	Late	10 - 15	20 - 25	600		Soft leaf type continental fescue. Summer active with good quality feed available.
Tower - Continental •	Late	10 - 15	20 - 25	600	Tolerates infertile, acid, some salts	Soft leaf, maximises Summer to Autumn growth potential, high nutritive value persistent continental type.
Origin - Mediterranean •	Mid	10 - 15	20 - 25	600	*	Winter active, Summer dormant, exceptional Winter growth, palatable, Mediterranean type.
Flecha Max P - Mediterranean	Mid	10 - 15	20 - 25	600	*	Summer dormant, rapid growth Autumn to Spring, Mediterranean type, Novel Endophyte.
Resolute Max P - Mediterranean	Mid	10 - 15	20 - 25	600	*	Summer dormant, soft leaves, Mediterranean type, Novel Endophyte.

VARIETY	GROWTH	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
		Dryland	High Rainfall/ Irrigation			
PHALARIS - PHALARIS AQUATICA						
Australian - Prostrate	Semi Winter dormant - low Summer dormancy	3 - 5	6 - 8	450	Versatile	Original Phalaris, high alkaloid level, slow to establish.
Australis Australian - Prostrate •	Semi Winter dormant - low Summer dormancy	3 - 5	6 - 8	450	Versatile	Dense fine leafed Australian type, good cool season activity, faster establishing, productive cultivar.
Uneta - Prostrate	Semi Winter dormant - low Summer dormancy	3 - 5	6 - 8	450	Versatile	Improvement on Australian, better vigour.
Sirosa Semi Erect - Erect	Winter active - low Summer dormancy	3 - 5	6 - 8	500	Versatile	Strong seedling vigour, low alkaloid level, good Autumn, Winter, Spring growth.
Landmaster Semi Erect - Erect	Winter active - low Summer dormancy	3 - 5	6 - 8	500	Versatile	Winter active type, adapted to shallow, acid, infertile soils.
Holdfast Semi Erect - Erect	Winter active - low Summer dormancy	3 - 5	6 - 8	500	Versatile	Winter active type, easy establishment, long term productivity.
Atlas - Erect	Winter active - medium - high Summer dormancy	3 - 5	6 - 8	500	Versatile	Summer dormant, very active Autumn, early Winter growth.
PRAIRIE GRASS - BROMUS WILLDENOWII						
Matua		7 - 35	40 - 60	600	Versatile	Good pioneer species, very palatable.
Atom		7 - 35	40 - 60	600	Versatile	Increased tiller density aiding persistence, tolerant of close grazing.
GRAZING BROME - BROMUS STAMINEUS						
Gala			25 - 30	600	Free Draining	Persistent, tolerant of close grazing, high quality and palatability.
TALL WHEAT GRASS - THINOPYRUM PONTICUM						
Largo / Tyrell		3 - 10	10 - 15	450	Poorly Drained / Saline	Good pioneer species, harsh foliage, useful for reclamation.
PUCCINELLIA - PUCCINELLIA CILIATA						
Menemen		3 - 5		300	Acid Neutral	Used for reclaiming salty soils.
VELDTGRASS - EHRHARTA CALYCINA						
Mission		2 - 5		300	Light	Drought resistant, often sown with Lucerne, very palatable.
PASPALUM - DILATATUM						
Paspalum		6 - 10		750	Heavy Soils	Summer growing, recovers quickly after grazing or drought.

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FORAGE CROPS (SPRING SOWN sorghum / millet)
FORAGE SORGHUM

Bounty •	Early sorg x sudangrass hybrid	5 - 15	15 - 25	500	Versatile	Early type, ideal for dryland sowing or irrigation. Sow at 16°C and rising.
Betta Graze	Early sorg x sudangrass hybrid	5 - 15	15 - 25	500	Versatile	Early type, Sudan Hybrid, fast recovery, high yielding.
Cow Pow	Late sorg x sudangrass hybrid	5 - 15	15 - 25	500	Versatile	Ultra late flowering type, palatable high yielding forage.
Jumbo	Late sorg x sudangrass hybrid	5 - 15	15 - 25	500	Versatile	Ultra late flowering type.
Mega Sweet	Sweet sorg x sweet sorg hybrid	5 - 8	10 - 20	500	Versatile	Improved quality, sweet stand over forage.
Calibre BMR •	Mid brown mid rid sorg x sudangrass	5 - 15	15 - 25	500	Versatile	Calibre has the BMR trait that offers lower lignin equaling higher animal performance.

FORAGE MILLET - ECHINOCHLOA UTILIS

Rebound •		10 - 15	10 - 40	500	Versatile	Earliest sown, leafy, fast growing, improvement of Shirohie, graze in 6 weeks. Sow at 14°C and rising.
Japanese / Shirohie		10 - 15	10 - 40	500	Versatile	Palatable safe feed, no HCN problems.
Maxa		10 - 15	10 - 40	500	Versatile	High quality multi usage forage millet, minimum soil temp 16°C, pearl type.

VARIETY	TIME TO FEED	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
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FORAGE BRASSICAS
HYBRID BRASSICA - CHINESE CABBAGE X TURNIP

Bouncer •	6 - 8 weeks		3 - 5	500	Versatile	Leafy turnip selected for fast grazing trait. Will fill early Winter feed gap, capable of growing in marginal areas.
Pasja	6 - 8 weeks		3 - 5	650	Versatile	Fast grazing, 6 - 8 weeks, Tetraploid turnip cross.
Hunter	6 - 8 weeks		3 - 5	650	Versatile	Fast grazing, Tetraploid turnip cross.

BRASSICAS RAPE - BRASSICA NAPUS

Rangi	10 - 12 weeks		3 - 5	600	Versatile	High yielding, vigorous strong early growth to compete with weeds. 10 - 12 wks to grazing.
Hobson	10 - 12 weeks		3 - 5	650	Versatile	High quality Summer crop for sheep & cattle finishing systems. 10-12 wks to grazing.
Bonar	12 - 14 weeks		3 - 5	700	Versatile	Late maturity, high utilizable forage yield. 12 - 14 wks to grazing.

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HYBRID RAPE - KALE X TURNIP

Sub Zero •	10 weeks		3 - 5	650	Versatile	Leafy rape type. Very frost tolerant with ability to withstand 0°C temps.
Winfred	10 weeks		3 - 5	650	Versatile	Early maturing, multiple grazing's, frost tolerant, kale x turnip cross.
Greenland	10 weeks		3 - 5	650	Versatile	Multiple grazing type with good cold tolerance.

TURNIP - BRASSICA RAPA VAR. RAPA

Barkant	10 - 12 weeks		1 - 2	650	Versatile	10 - 12 weeks maturity, high production.
Barabas	10 - 12 weeks		1 - 2	650	Versatile	Early maturity, tankard bulb, high yielding.
Polybra	10 - 12 weeks		1 - 2	650	Versatile	Fast maturing turnip, tops can regrow, allows multiple grazing.
Vollenda	10 - 12 weeks		1 - 2	700	Versatile	High quality turnip, lift feed quality in dairy systems in Summer.
Mammoth Purple Top	12 - 14 weeks		1 - 2	600	Versatile	12 - 14 weeks maturity, high production.
Appin	14 weeks		1 - 2	650	Versatile	Fast growing, high yielding, soft tankard, 14 weeks maturity.

KALE - BRASSICA OLERACEA

Chou Moellier	14 - 18 weeks		3 - 5	700	Versatile	Suits cold climates.
Kestrel	18 - 24 weeks		3 - 5	750	Versatile	Matures in 18 - 24 weeks, low smco. levels reduce red water.

CHICORY - CHICORIUM INTYBUS

Balance •	Bi - annual		3 - 5	500	Versatile	2 - 3 yr option, suited to pH 5.5 - 8pH. Excellent feed quality.
Puna 2	Bi - annual		3 - 5	650	Versatile	Suited to rotational grazing, can be over grazed easily.
Grouse	Short term		3 - 5	650	Versatile	Broad leaf, cool season active, deep rooted.
Chico	Short term		3 - 5	650	Versatile	Better palatability and production.

PLANTAIN - PLANTAGO LANCEOLATA

Ranger •			4 - 8	500	Versatile	Upright Winter active, rapid establishing, drought tolerant.
Tonic			2 - 3	650	Versatile	Upright Winter active, rapid establishing, drought tolerant.

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TEMPERATE LEGUMES (AUTUMN & SPRING SOWN)
BALANSA CLOVER - TRIFOLIUM MICELIANUM

Cobra •	Early	4 - 6	8 - 10	350	Versatile 4.5 - 7.0 pH	Early maturity, superior Winter production, hard seeded, self regenerating.
Frontier	Early	4 - 6	8 - 10	350	Versatile 4.5 - 7.0 pH	Early maturity, hard seeded, self regenerating.
Taipan	Mid	4 - 6	8 - 10	450	Versatile 4.5 - 7.0 pH	Mid season, significantly outperforms Paradana, superior herbage production.
Paradana	Mid	4 - 6	8 - 10	450	Versatile 4.5 - 7.0 pH	Mid season type, will grow on acid soils, low oestrogen.
Viper	Late	4 - 6	8 - 10	550	Versatile 4.5 - 7.0 pH	Late season, outperforms Bolta in either phase or permanent pastures or as a forage crop.
Bolta	Late	4 - 6	8 - 10	550	Versatile 4.5 - 7.0 pH	Late season type, extended Spring growth giving high herbage production.

BERSEEM CLOVER - TRIFOLIUM ALEXANDRINUM

Alexandria •	Mid - late	8 - 10	10 - 15	650	Versatile Neutral pH	Multicut, high Winter production, hay or grazing, tolerant to water logging.
Multicut	Mid - late	8 - 10	10 - 15	650	Versatile Neutral pH	High Winter production, main use annual fodder crop and hay.
Elite II	Mid - late	8 - 10	10 - 15	750	Versatile Neutral pH	Multicut/repeat grazing type, water logging tolerant.

LOTUS - LOTUS CORNICULATUS

Maku			1 - 3	800	Acid to Neutral	Non bloating, suits acid, wet, infertile soils.
Goldie			1 - 3	800	Acid to Neutral	Tap rooted, tolerates acid, infertile soils, high in aluminium.

RED CLOVER - TRIFOLIUM PRATENSE

Astred	Early	5 - 7	10 - 15	600	Fertile Slightly Acid - neutral	Persistent due to high stolon production.
Colenso	Early	5 - 7	10 - 15	600	Fertile Slightly Acid - neutral	Dense tillering, fine stemmed, early flowering.
Hamua (Cowgrass)	Early	5 - 7	10 - 15	700	Fertile Slightly Acid - neutral	Early and erect cultivar, two year persistence, some oestrogen problems.
Rajah •	Early	5 - 7	10 - 15	600	Fertile Slightly Acid - neutral	Mid maturity, plants of dense structure, maximum mid Spring to mid Autumn production. Very Low Oestrogen levels, Excellent Grazing tolerance.
Redquin	Mid	5 - 7	10 - 15	600	Fertile Slightly Acid - neutral	Greater Winter production, mid season, erect, low oestrogen problems.
Renegade •	Mid	5 - 7	10 - 15	500	Fertile Slightly Acid - neutral	Renegade is an erect double cut red clover. Large leaf, high yielding. Suitable for Premium hay markets.

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ROSE CLOVER - TRIFOLIUM HIRTUM

Sardi Rose •	Mid - late	5 - 8	10 - 15	350	Versatile lighter soils	Hard seeded, persistent, self regenerating, ideal for low - mid rainfall areas.
Kondinin / Hykon	Mid - late	5 - 8	10 - 15	350	Neutral / Alkaline	Winter, Spring production, regenerative annual.

CRIMSON CLOVER - TRIFOLIUM GLANDULIFERUM

Caprera	Mid - late	3 - 7	8 - 10	450	Versatile	Deep rooted, aerial seeding, good regeneration.
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PERSIAN CLOVER - TRIFOLIUM RESUPINATUM

SARDI Persian Resupinatum - Semi Prostrate •	Early - mid, high hard seed	5 - 8	10 - 15	300	Versatile 5.5 - 8.5 pH	Early type with good hard seed levels, Excellent forage quality.
Prolific - Resupinatum - Semi Prostrate	Early - mid, high hard seed	5 - 8	10 - 15	350	Versatile 5.5 - 8.5 pH	Early type, adaptable to water logging & mild salinity, high hard seed.
Nitro - Resupinatum - Semi Prostrate	Early - mid, high hard seed	5 - 8	10 - 15	450	Versatile 5.5 - 8.5 pH	Early & mid season hard seed type, suited to pasture and cropping rotations.
Kyambro - Resupinatum - Semi Prostrate	Mid, high hard seed	5 - 8	10 - 15	550	Versatile 5.5 - 8.5 pH	Mid season, high hard seed content, high productivity.
Lightning - Majus - Semi Erect - Erect	Mid - no hard seed	6 - 10	10 - 15	450	Versatile 5.5 - 8.5 pH	Mid maturing, shaftal type, vigorous erect growth for hay production.
Turbo - Majus - Semi Erect - Erect •	Late - low hard seed	6 - 10	10 - 15	450	Versatile 5.5 - 8.5 pH	Rapid Autumn & Winter seedling vigour, high growth rates & production particularly in late Autumn/Winter.
Maral - Majus - Semi Erect - Erect	Late - low hard seed	6 - 10	10 - 15	500	Versatile 5.5 - 8.5 pH	Responds well after grazing, good Spring production.
Shaftal - Majus - Semi Erect - Erect	Late - low hard seed	6 - 10	10 - 15	500	Versatile 5.5 - 8.5 pH	Improved Maral type, good Autumn, Winter & Spring production.
Laser - Majus - Semi Erect - Erect	Late - low hard seed	6 - 10	10 - 15	700	Versatile 5.5 - 8.5 pH	Soft seed shaftal type, high productivity, multiple hay cuts/grazing.

ARROW LEAF - TRIFOLIUM VESICULOSUM

Zulumax •	Early - high hard seed	6 - 10	10 - 15	450	Neutral / Alkaline	Early maturity, non bloating, high forage yields.
Cefalu	Early - high hard seed	6 - 10	10 - 15	450	Neutral / Alkaline	Early maturity, self generated, Winter growing.
Zulu II	Late - high hard seed	6 - 10	10 - 15	550	Neutral / Alkaline	Erect, vigorous, non bloating, cold tolerance, late maturity.

BLADDER CLOVER - TRIFOLIUM SPUMOSUM

Agwest Bartolo •	Mid - 105 days to flower	10 - 14	15 - 20	350	Versatile 5 - 8.5 pH	Ideal replacement for Sub clover. High dry matter production with excellent seed yields. Very hard seed.
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BISERRULLA - BISERRULA PELEGINUS

Casbah	Early	7 - 10		300	Acid, Low Fert.	Early Maturing. Excellent persistence, tolerate poor soils, some R.L.E.M. tolerance.
Mauro	late	7 - 10		450	Acid, Low Fert.	Late Maturing. Excellent persistence, tolerate poor soils, some R.L.E.M. tolerance.

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SERRADELLA
PINK/ FRENCH SERRADELLA - ORNITHOPUS SATIVUS

Cadiz	Early - mid, soft seed	5 - 10	10 - 15	350	Acid, Low Fert.	Soft seeded, high dry matter production.
Erica	Early - mid, hard seed	5 - 10	10 - 15	350	Acid, Low Fert.	Hard seed, good dry matter production in light soils.
Margurita	Early - mid, hard seed	5 - 10	10 - 15	350	Acid, Low Fert.	Hard seed, good dry matter production in light soils.

YELLOW SERRADELLA - ORNITHOPUS COMPRESSUS

Yelbeni	Very early - high hard seed	5 - 10	10 - 15	350	Acid, Low Fert.	Very early Maturing, Hard Seeded, Deep rooted. Will grow from 4 - 8 pH.
Santorini	Early - high hard seed	5 - 10	10 - 15	350	Acid, Low Fert.	Mid maturing, hard seeded, Replacement for Madeira, tolerant of high aluminium.
Charano	Early - high hard seed	5 - 10	10 - 15	350	Acid, Low Fert.	Upright growth, aluminium tolerance improved, R.L.E.M. tolerance.
Madeira	Early - mid, hard seed	5 - 10	10 - 15	450	Acid, Low Fert.	Western Australian replacement for Uniserra.

STRAWBERRY CLOVER - TRIFOLIUM FRAGIFERUM

Palestine			2 - 4	500	Versatile	Perennial, tolerates both drought & water logging, suited for poorly drained soils.
Upward			2 - 4	500	Versatile	Upright, high production cultivar with more Winter activity.
O'Connor			2 - 4	700	Versatile	Perennial, small leafed cultivar, more compact than Palestine. Turf usage.

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WHITE CLOVER - TRIFOLIUM REPENS

Riesling •	Small - medium/ high stolon density	3 - 4	5 - 8	600	Versatile	Small-medium leaf, aggressive, heat tolerant, high Stolon density, persistent.
Prestige	Small - medium stolon density	3 - 4	5 - 8	600	Versatile	Small leaf, heat tolerant, persistent.
Mink	Medium leaf	3 - 4	5 - 8	700	Fertile	Medium leaf, improved Victorian Irrigation type.
Sustain	Medium leaf	3 - 4	5 - 8	700	Fertile	Medium leaf, high yielding, year round production.
Irrigation	Medium leaf	3 - 4	5 - 8	700	Fertile	Medium leaf, echo type re - selected in Victoria, good persistence.
Demand	Medium leaf	3 - 4	5 - 8	700	Fertile	Medium leaf, good cold tolerance, good Winter production.
Pitau	Medium leaf	3 - 4	5 - 8	700	Fertile	Medium leaf, prefers mild conditions, good Autumn - Spring growth.

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Huia	Medium leaf	3 - 4	5 - 8	700	Fertile	Medium leaf, more cold tolerant than Pitau.
Tribute	Medium - large leaf	3 - 4	5 - 8	700	Good Fertility	Medium - large leaf type, good Winter Spring production.
Jumbo •	Large leaf	3 - 4	5 - 8	700	Good Fertility	Large leaf ladino type, more production than Haifa, superior heat tolerance, good persistence.
Haifa	Large leaf	3 - 4	5 - 8	700	Good Fertility	Large leaf, high Autumn, Winter production.
Waverley	Large leaf	3 - 4	5 - 8	700	Good Fertility	Large leaf, Haifa type, improved Autumn, Winter production.
Kopu	Large leaf	3 - 4	5 - 8	700	Good Fertility	Large leaf, greater Winter activity than Aran but less Spring, Summer growth.
Will	Large leaf	3 - 4	5 - 8	700	Good Fertility	Large leaf, heat tolerant, strong Summer growth.

VETCH
VICIA VILLOSA SUBSP. SATIVA

Languedoc	Early maturity - Soft seed		15 - 20	250	Versatile	Soft seeded, good option in marginal rainfall.
Blanchefleur	Mid maturity - Soft seed		15 - 20	350	Versatile	Soft seeded, grown for Hay production, mid maturity.
Timok •	Mid maturity		30 - 45	350	Versatile	Soft seeded, grown for hay production, very productive. Replacement for Morava.
Morava	Mid - late maturity		15 - 20	400	Versatile	Soft seeded, grown for Hay production, mid maturity, very productive.

VICIA VILLOSA SUBSP. DASYCARPA

Namoi Woolly Pod	Mid maturity - High hard seed		10 - 20	375	Versatile	Hard seeded, for grazing or Hay, very persistent annual seeder.
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PURPLE - VICIA VILLOSA SUBSP. BENGHALENSIS

Popany	Very late maturity - Soft seed		30 - 35	450	Acid to Neutral	Soft seeded, ideal Hay variety, sown with Cereals for Hay.
Barloo	Mid maturity - soft seed		25 - 35	300	Acid to Neutral	Soft Seeded Popany Type, Grown for Hay Production.

VARIETY	DORMANCY	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
		Dryland	High Rainfall/ Irrigation			
CONVENTIONAL LUCERNE - MEDICAGO SATIVA						
WINTER DORMANT						
Q31 •	3	4 - 8	10 - 20	450	Neutral / Alkaline	Industry benchmark for dormant material. Designed for serious hay cutters looking for premium quality hay. Excellent disease profile.
Prime, WL 342HQ - MF	4				Neutral / Alkaline	
SEMI - WINTER DORMANT						
L55, Venus, Kaituna, SARDI 5, Hunter River	5				Neutral / Alkaline	
L56 •	5	4 - 6	8 - 15	350	Neutral / Alkaline	Replacement for L55. Highest Phytophthora crown rot rating in Australia HR+. Suited to Hay cutting/ grazing operations.
WINTER ACTIVE						
GTL60 •	6	4 - 8	10 - 20	350	Neutral / Alkaline	Tested for grazing tolerance over a 3 year period with sheep. GTL60 is the benchmark for long term lucerne.
Hunterfield, Stamina GT6, Aurora, Genesis, SARDI 7, Trifecta	6 - 7				Neutral / Alkaline	
L70 •	7	4 - 8	10 - 20	350	Neutral / Alkaline	Replacement for Aurora. High forage quality with excellent disease profile. Better disease, pest and yield package. Offers better quality with 8% yield increase.
L71 •	7	4 - 8	10 - 20	350	Neutral / Alkaline	Replacement for Genesis. Better disease, pest and yield package. Very good quality forage. Offers better quality with 4% yield increase over Genesis.
Q75 •	7	4 - 8	10 - 15	350	Neutral / Alkaline	The Q trait signifies this variety has demonstrated superior forage quality characteristics in laboratory and animal feeding trials. Better option to Aurora.
HIGHLY WINTER ACTIVE						
Aquarius, WL 525HQ, Multi Foli - 8, WL 925HQ, Siriver, Sequel, SARDI 10	8 - 10				Neutral / Alkaline	
L91 •	9	4 - 8	10 - 15	350	Neutral / Alkaline	Replacement for L90 with excellent grazing tolerance, higher disease profile over L90 with 4% higher production.
L92 •	9	4 - 8	10 - 15	350	Neutral / Alkaline	Set to become the leading highly Winter active for grazing and hay. Dual purpose with the full package.
Multileaf® ML99 •	10	4 - 8	10 - 15	250	Neutral / Alkaline	Developed for highly Winter active growers looking for higher feed quality. ML99 has 40% more leaflets than conventional varieties.

VARIETY	MATURITY	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
		Dryland	High Rainfall/ Irrigation			

MEDICS

BARREL TYPE - MEDICAGO TRUNCATULA

Parabinga (Barrel)	Early	10 - 15	15 - 20	250	Neutral / Alkaline	Sandy loams - loam soils, improved Aphid tolerance.
Sephi (Barrel)	Early / Mid	10 - 15	15 - 20	400	Neutral / Alkaline	Sandy loams - clay loams. Better dry matter yield, aphid tolerant, hay type.
Caliph (Barrel) •	Early / Mid	10 - 15	15 - 20	250	Neutral / Alkaline	Loam - clay soils, Aphid resistant, tolerant of Boron, persistent. Flowers 80 days. Replacement for Parabinga.
Paraggio (Barrel)	Mid	10 - 15	15 - 20	350	Neutral / Alkaline	Sandy loams - clay soils. Jemalong replacement, improved Aphid tolerance.
Jester (Barrel)	Mid	10 - 15	15 - 20	400	Neutral / Alkaline	Sandy loams - clay loams. Aphid resistant improvement of Jemalong.

STRAND TYPE - MEDICAGO LITTORALIS

Herald (Strand) •	Early / Mid	10 - 15	15 - 20	275	Neutral / Alkaline	Sandy soils, Aphid resistant selection, persistent, productive cultivar. Flowers 70 - 95 days.
Angel (Strand)	Early / Mid	10 - 15	15 - 20	275	Neutral / Alkaline	Tolerant to S/U chemical residues. Bred off Herald.
Jaguar (Strand) •	Early / Mid	10 - 15	15 - 20	275	Neutral / Alkaline	First of the pod & leaf holding type medics, similar growth habit to Herald.

GAMA TYPE - MEDICAGO RUGOSA

Paraponto (Gama)	Early / Mid	10 - 15	15 - 20	300	Neutral / Alkaline	High yielding, erect, Hay type, moderate tolerance to R.L.E.M and Lucerne Flea.
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DISC TYPE - MEDICAGO TORNATA

Tornafeld (Disc)	Mid	10 - 15	15 - 20	400	Neutral / Alkaline	Suited to slightly acid soils, Spring production is excellent.
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HYBRID TYPE

Toreador (Disc x Strand)	Early / Mid	10 - 15	15 - 20	400	Neutral / Alkaline	Attributes of Disc but selected for Mallee sandy soils.
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SNAIL TYPE - MEDICAGO SCUTELLATA

Sava (Snail)	Very Early	15 - 18	18 - 25	400	Neutral / Alkaline	High production, increased pest resistance, can be over grazed.
Silver (Snail) •	Early / Mid	15 - 18	18 - 25	350	Neutral / Alkaline	Suits heavier soils, highly productive. Best for grazing tolerance from any Snail medic.

BURR TYPE - MEDICAGO POLYMORPHA VAR BREVISPINA

Cavalier (Spineless Burr) •	Mid	10 - 15	15 - 20	325	Most adaptable 5.2 - 9.0 pH	Mid maturing, semi - erect, relative high percentage of soft seed & high herbage production. Excellent pasture or legume option.
Santiago (Burr)	Early / Mid	10 - 15	15 - 20	325	Neutral / Alkaline	Early, mid maturing, similar to barrel medics in production.

VARIETY	DAYS TO FIRST FLOWER	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
		Dryland	High Rainfall/Irrigation			

SUBTERRANEAN CLOVER
SSP.TRIFOLIUM SUBTERRANEAN

Nungarin	77	8 - 14	15 - 20	325	Acid / Neutral	Suits dry areas, high hard seed, adds persistence to mixture, early season.
Izmir	78	8 - 14	15 - 20	350	Acid / Neutral	For dry areas, early season, hard seeded, very persistent.
Dalsa •	97	8 - 14	15 - 20	325	Acid / Neutral	High level of hard seededness & very strong seed burial, excellent regeneration, highly productive.
Dalkeith	97	8 - 14	15 - 20	325	Acid / Neutral	Replaced Dwalganup, high hard seed, persistent, early maturing.
Losa	97	8 - 14	15 - 20	400	Acid / Neutral	Early Dalkeith type, very good herbage and seedling regeneration.
Urana	105	8 - 14	15 - 20	400	Acid / Neutral	Flowering between Dalkeith and Seaton Park, excellent Winter growth, hard seeded.
Seaton Park	110	8 - 14	15 - 20	400	Acid / Neutral	Moderate hard seed, good persistence, clover scorch susceptible, early mid maturity.
Campeda	123	8 - 14	15 - 20	450	Acid / Neutral	Woogenellup type, good growth, vigour and seedling regeneration.
Junee	126	8 - 14	15 - 20	400	Acid / Neutral	Early - mid season, Winter growth, withstands early Spring finish.
Woogenellup	130	8 - 14	15 - 20	450	Acid / Neutral	Mid season, good growth and persistence.
Coolamon	132	8 - 14	15 - 20	450	Acid / Neutral	Early - mid season, very persistent and productive type.
Karridale	139	8 - 14	15 - 20	600	Acid / Neutral	Late season, superior production to Mt. Barker, good disease tolerance.
Ovaflow •	140	8 - 14	15 - 20	600	Acid / Neutral	Cross between Portuguese material x Karridale. Late season with Good Winter/ Spring production.
Denmark	142	8 - 14	15 - 20	600	Acid / Neutral	Late season type, very good full season production.
Goulburn	143	8 - 14	15 - 20	600	Acid / Neutral	Good clover scorch & Phytophthora resistance, late maturing.
Leura	147	8 - 14	15 - 20	600	Acid / Neutral	Late maturing, good Spring growth, long Growing season.

SSP. TRIFOLIUM BRACHYCALYCNINUM

Clare 2 •	130	8 - 14	15 - 20	325	Neutral / Alkaline	Low hard seed, suited to higher rainfall areas, mid season.
Antas	134	8 - 14	15 - 20	450	Neutral / Alkaline	Clare type, excellent herbage production for Hay.

SSP. TRIFOLIUM YANNINICUM

Trikkala	112	8 - 14	15 - 20	450	Acid / Neutral	Good Winter, early Spring growth, tolerates water logging.
Hatrik •	114	8 - 14	15 - 20	450	Acid / Neutral	Derived from a cross between Larissa and Trikkala. Good Winter production with high resistance to race O Phytophthora.
Riverina	119	8 - 14	15 - 20	450	Acid / Neutral	Trikkala replacement, water logging tolerant, resistant to PRR.
Gosse	126	8 - 14	15 - 20	450	Acid / Neutral	Very productive for Hay production, water logging tolerant.
Larisa	140	8 - 14	15 - 20	600	Acid / Neutral	Late maturity, suits high rainfall areas and tolerates water logging.

VARIETY	MATURITY	SEEDING RATE kg/ha		MINIMUM RAINFALL (mm)	SOIL TYPE	INFORMATION
		Dryland	High Rainfall/ Irrigation			

FORAGE CEREALS

Moby Forage Barley •	early	60 - 80	80 - 120	350	Versatile	New Release 2010, Awnless white seeded forage barley. Exceptional early vigour with high production early in Winter to fill feed gaps.
Wrangler Forage Wheat •	mid	60 - 80	80 - 120	400	Versatile	Purpose bred Awnless dual purpose wheat. Good option for Winter grazing then can be locked up for whole crop silage or grain production.
Outback Forage Oats •	mid - late	60 - 80	80 - 120	400	Versatile	Late maturing forage type oat. Large green leaves with excellent grazing and hay characteristics. Good rust resistance.

GRAINS, CEREAL AND SUNDRY SOWING RATES

SPECIES	FORAGE kg/ha	GRAIN kg/ha
Oats	80 - 120 (irrigation)	50 - 60
Barley	80 - 100 (irrigation)	60 - 80
Triticale	100 - 140 (irrigation)	60 - 80
Ryecorn	100 - 140 (irrigation)	60 - 80
Wheat	70 - 100 (irrigation)	50 - 60
Faba Beans		120 - 140
Lupins	80 - 100	60 - 90
Peas	100 - 150	100 - 130
Chickpeas	80 - 100	70 - 80
Lentils		45 - 75
Canola		4 - 6
Safflower		15 - 18
Forage Sorghum	20 (irrigation) 10 - 15 (dryland)	

SPECIES	FORAGE seeds/ha	GRAIN seeds/ha
Maize	65 - 95,000 (irrigation) 20 - 35,000 (dryland)	65 - 95,000 (irrigation) 20 - 35,000 (dryland)
Sunflower		80 - 90,00 (irrigation) 30 - 40,000 (dryland)

COVERSION TABLE

1 Hectare = 2.47 Acres
 1 Acre = 0.40 Hectares
 1 Kilogram = 2.20 Pounds
 1 Pound = 0.45 Kilograms

Individual variety notes available on request

PASTURE AND CROP SEEDS

VARIETIES	SEEDS/1 KG
Alsike & White Clover	1,540,000
Annual Ryegrass	550,000
Balansa Clover	1,400,000
Barley	30,800
Barrel Medic	231,000
Berseem Clover	326,000
Blue Panic	1,430,000
Buffel Grass	550,000
Burr Medic	308,000
Canary Grass	1,166,000
Centro	33,000
Chicory	830,000
Cocksfoot	990,000
Crimson Clover	308,000
Field Pea	6,600
Gland Clover	1,430,000
Guinea Grass	2,420,000
Italian Ryegrass	484,000
Kikuyu	410,000
Lucerne	440,000
Lupin	5,500
Maize	1,826
Millet	180,400
Molasses Grass	13.2-15.4 Mil
Oats	28,600

PASTURE AND CROP SEEDS

VARIETIES	SEEDS/1 KG
Paspalum	704,000
Perennial Ryegrass	136,400
Persian Clover	1,456,000
Phalaris	704,000
Plantain	500,000
Prairie Grass	136,400
Puccinellia	5,000,000
Red Clover	605,000
Rhodes Grass	4,400,000
Rose Clover	331,000
Ryegrass Hybrid (Diploid)	5/600,000
Ryegrass Hybrid (Tetraploid)	2/300,000
Snail Medic	60,000
Strawberry Clover	770,000
Stylo	264,000
Subterranean Clover	154,000
Sudan Grass	99,000
Sweet Sorghum	61,600
Tall Fescue	404,000
Tall Wheat Grass	190,000
Triticale	30,000
Veldt Grass	712,000
Vetch	22,000
Wheat	28,000