

Pasture renovation guide

No matter what type of stock you are running, you need pastures that will deliver. With the right pasture for your situation, you can meet the needs of your livestock in a profitable and sustainable way. This will enable you to keep your options open and concentrate on making every stock unit count and maximise your profits. Whether you are growing winter lambs, dairy cows, prime beef or perhaps all three, with the right pasture for your enterprise, you can grow with confidence using the tools in this guide.



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Considerations and some important principles

Reasons for pasture renovation

- Obvious or measured poor composition
- Grazing records/pasture measurements that show under performance
- Introduce improved cultivars
- Part of an on-going farm improvement plan
- Maximise income potential/achieve particular production targets.

Why did previous pasture not do well enough?

- Over or under-grazing?
- Decline in fertility?
- Species or types used?
- Weeds/pests?
- Environmental extremes?
- Combination of a number of the above is commonly the case.

Effect of grazing mis-management

- Over-grazing duration too long/rest-phase too short:
 - Loss of valuable species
 - Bare ground: cockchafers, erosion, annual weeds e.g. vulpia (silvergrass), barley grass, capeweed etc.
- Lax/under-grazing:
 - Selective grazing of palatable species
 - Crowding out of prostrate species
 - Proliferation of weedy biennials/perennials, e.g. fog grass, bromes, sweet vernal, brown-top etc.

Soil test - fertility targets

A soil test is essential to achieve production expectations and may often save money on unnecessary fertiliser. These figures are a general guide only. Consult an experienced advisor to work through specific circumstances.

pH (CaCl ₂)	4.5 – 5.4 is usually adequate for grass/clover	Mg	Don't over-look, especially if applying solid rates of K
1 \ 2	(approx 5.4 – 5.9 pH in water) 5.6 + for lucerne (6.0 in water)		
P (Olsen)	Target range 15 – 20ppm, ideally 18+,	Cu	2.5 – 20ppm. Aids flowering and seed development
1 (Gisch)	(25 – 30 for dairy/intensive production)	Zn	5 – 15ppm
	130 – 150ppm for lighter soils		Needed for legumes to function: 50 – 60 g/ha of Mo every
K	150 – 220 for medium clay/silts/loams	Мо	3 – 5 years. Apply in conjunction with Cu
	200 – 250ppm for clayey types	В	1 – 5 ppm. Needed for legumes
	200 200ppiii loi ciayey types	Со	Sometimes needed in small amounts
s	S 12 – 20 ppm about right		May be needed (animal performance)



Setting up a paddock for success

- Soil test and address nutrients as is feasible
- Allow 6 18 months preparation phase
- Weed control:
 - Grass weeds: Topping, break crops, fallow
 - Broad-leaved weeds: As above, but many options in pasture
 - Onion weed/pin rush: Break crop with Group B herbicide
 - Break crops: Cash crop/fodder crop opportunities.



- 1. Broadcasting seed may also be effective
- 2. Spray, Drill (no till) may be very effective in low-weed burden situations

More preparation offers higher success rates

Give your clovers a fighting chance

If a good legume content is desired, keep the sowing rate of grass relatively modest and increase clover percentage in a mix, or adopt other tactics such as cross-sowing. Early grazing management should allow for a quick first grazing in order to open up the sward, let the clovers have room and sunlight.

Post-sowing weed control

Control of emerging weeds is usually essential postsowing. Timely sowing plus good seed placement will offer quick, even emergence that will assist in good herbicide timing. Seek good, experienced advice for suitable options, timings and overall approach.

Pasture maintenance and continued performance

- New pastures are likely to offer more grazing than older ones: Treat them carefully and apply extra fertiliser to mantain performance if more grazing than usual has taken place
- Measure performance/pasture growth: Grazing records, pasture measurement
- Soil test at regular intervals (say every 3 4 years)
- Fertiliser budget: Apply maintenance PKS and traces if needed
- Pests: Monitor and respond
- Broad leaved weeds: Fairly straightforward (mostly), but do before subs start to set flowers
- Weedy grasses: Winter cleaning and/or pasture topping
- Develop a calendar of pasture monitoring and probable maintenance requirements for your particular circumstances and engage an experienced advisor to assist with technical issues and tactical options.



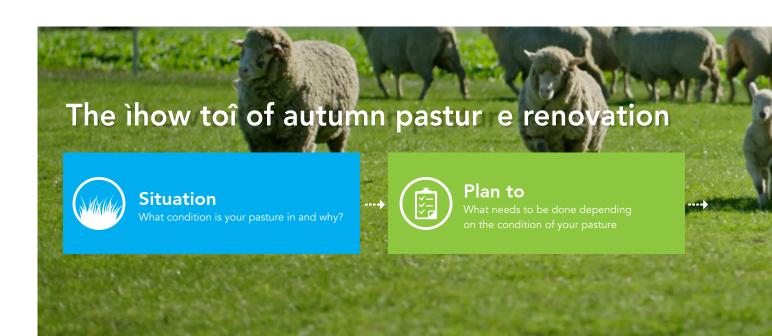
Autumn strategies for pasture renovation

pasture renovation % desirable species)		Process and timing		Early autumn		Late autumn	
Weeds	-	Control weeds in a forage cereal crop. Reduce seed burden and/ or crop out plant numbers	≯	Systemic knock-down herbicide. Short fallow		2nd knock-down. Sow forage cereal. Consider using a suitable pre-em herbicide	
Broad-leaved weeds		Use definitive herbicide program to have a number of applications on hard-to-kill weeds such as some thistles, docks, wire-weed and other biennial/perennial weeds		Express Forage oats		40 – 70 kg/ha	
Annual grass weeds		Reduce weed-seed burden. Use of pasture topping, short fallows, pre-em herbicides, crop-topping, early silage harvest. If pH and fertility OK, then consider going straight into lucerne		Crackerjack 2 Forage triticale		40 – 70 kg/ha	
Staggers causing grasses, biennial or perennial grass weeds		Reduce plant numbers under a 2 crop strategy. Use systemic knock-downs, and in-crop grass weed control options. If pH and fertility OK, then consider going straight into lucerne		Dictator 2 Forage barley		40 – 70 kg/ha	
Pasture pests		Remove old ryegrass from system under a 2 crop strategy		Break life-cycle through cultivation		Prepare good seed- bed and sow pasture	
Cockchafers		Use tall fescue, phalaris or cocksfoot based pastures		450-600 mm Meatmaster GT		12 – 18 kg/ha	
Argentine stem-weevil		Use NEA2, 4 or AR1 endophyte ryegrasses	>	Renovator 500+ Kidman or Rohan		12 – 18 kg/ha 10 – 15 kg/ha	
Black-beetle/Root aphid	 -	Use NEA2, 4 endophyte ryegrasses or a hardy perennial		Renovator Grazier		12 – 18 kg/ha	
Diddle Scene Noot aprille		blend		Renovator 500+		10 – 15 kg/ha 12 – 18 kg/ha	
Soil conditions		Hostile/troublesome sites with little prospect of ameliorating state of soil conditions		Highly acidic: pH (CaCl ₂) < 4	.5		
		Key grass variety/species		Advanced AT (wet sites), Cocksfoot (dry)			
		Useful pasture legume options		Vista, Monti, Campeda, Losa			



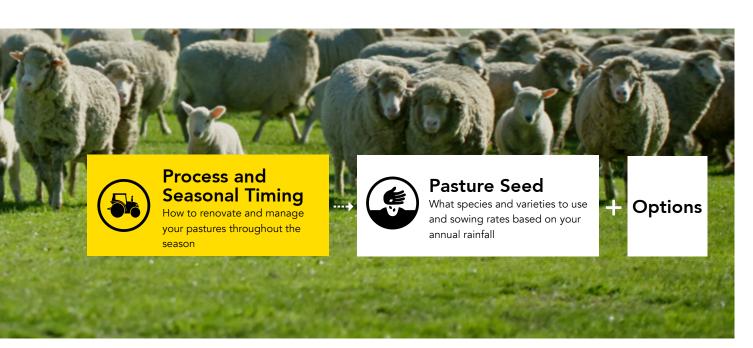
Winter	Early spring		Late spring		Summer		Autumn (next year)
Graze forage cereal. In-crop weed-control	 Fertiliser N,K,S to maximise production	•	Silage crop or cereal (grain) crop. Possible crop-top herbicide	·- -	Summer forage crop (with pre-em and/or in-crop herbicide options) or summer fallow	→	Finish grazing forage. Knock-dowr herbicide. Sow new pasture
600 – 750 mm			750 mm+/Irrig				
Express Forage oats	60 – 80 kg/ha		Express Forage oats		80 – 120 kg/ha		FEB - MAY (general purpose, early sowing)
Crackerjack 2 Forage triticale	60 – 80 kg/ha		Crackerjack 2 Forage triticale		80 – 120 kg/ha		MAR - JUN (mid-season sowing, wetter sites, lower pH)
Dictator 2 Forage barley	60 – 80 kg/ha		Dictator 2 Forage barley		80 – 120 kg/ha		MAY-JUL OR LATER (later sowing, good pH, well drained)
Manage weeds and pests	 Start grazing management	•	Grazing management. Avoid silage or hay in 1st year	>	Rotationally graze	→	Start seasonal maintenance program
600 – 750 mm			750 mm+/Irrig				
Renovator GT	15 – 20 kg/ha		Renovator GT		18 – 25 kg/ha		(light-medium soils
Renovator 500+	15 – 20 kg/ha		Renovator 500+		18 – 25 kg/ha		(heavier soils)
Rohan, Maxsyn or Impact 2	12 –18 kg/ha		Impact 2, Bealey, Viscount or Maxsyn		25 – 30 kg/ha		
Renovator 700+	18 – 25 kg/ha		Renovator HR, 850i		25 – 30 kg/ha		
Rohan, Maxsyn or Impact 2	20 – 25 kg/ha		Impact 2, Bealey, Viscount or Maxsyn		25 – 30 kg/ha		
Renovator 700+	18 – 25 kg/ha		Renovator HR		25 – 30 kg/ha		
Waterlogging frequent			Rising level of salinity, still <	: 3 -	- 4 dS/m		
Ryegrass, Fescue, Phalaris			Ryegrass, Fescue, Phalaris				
Vista, Storm, Strawberry, Monti, Gosse			Vista, Strawberry, Scimitar, Sultan-SU				
Renovator 500+	12 – 25 kg/ha		Renovator 500+		12 – 25 kg/ha		

Oversowin maintenan desirable g	ng and ce (> 30% ground cover)	Process and timing		Early autumn	Late autumn	
30% – 50% desirable varieties	Over-sow with short-term varieties	 Over-sow with an annual or annual/Italian blend Monitor and consider as a candidate for renovation in 1 – 2 years		Graze-down hard. Possibly use a knock-down herbicide	 Over-sow into moisture	
		Seed options:		450 – 600mm		
		Straight variety		Vortex	8 – 12 kg/ha	
		Blend		Meatmaster ST	10 – 15 kg/ha	
50% – 70% desirable varieties	Over-sow with medium-term varieties	 Over-sow with an Italian or Italian/hybrid blend Monitor and consider as a candidate for renovation in 2 – 3 years+		Graze-down hard. Possibly use a knock-down herbicide	 Over-sow into moisture	
		Seed options:		450 – 600mm		
		Straight variety		Hulk or Tempo	8 – 12 kg/ha	
		Blend		Barberia + Hulk	10 – 15 kg/ha	
70% – 90% desirable varieties	Top-up existing pasture	 Over-sow with a perennial or perennial/hybrid blend Monitor and consider as a candidate for renovation in 3 – 5 years+		Graze-down hard. Possibly use a knock-down herbicide	 Over-sow into moisture	
		Seed options:		450 – 600mm		
		Straight variety		Barberia, Kidman	8 – 12 kg/ha	
		Blend		Renovator Grazier	10 – 15 kg/ha	
>90% useful varieties	Maintain existing pasture	 Seasonal pasture maintentance		Soil-test, apply capital fertiliser, soil amendments	 Monitor for grubs, mites and treat appropriately	



Winter	Early spring	Late spring		Summer	Autumn (next year)
Start grazing, manage weeds and pests	 Grazing	 Silage or hay crop		Grazing as applicable or summer forage crop	 Finish grazing forage. Knock-down herbicide. Sow new pasture
600 – 750mm		750mm+/Irrig			
Vortex or Fuze	10 – 15 kg/ha	Fuze or Hogan		15 – 25 kg/ha	
Renovator SR	15 – 25 kg/ha	Renovator SR		20 – 30 kg/ha	
Start grazing, manage weeds and pests	 Grazing	 Silage or hay crop	>	Rotationally graze, do not overgraze good pastures	 Evaluate performance and pasture composition and respond accordingly
600 – 750mm		750mm+/Irrig			
Tempo or Shogun	10 – 15 kg/ha	Arise or Shogun		15 – 25 kg/ha	
Tempo + Shogun	12 – 20 kg/ha	Arise + Shogun		15 – 25 kg/ha	
Start grazing, manage weeds and pests	 Grazing	 Silage / hay making, pasture topping. Stop weed-seed set with herbicides or good grazing management		Rotationally graze, do not overgraze good pastures	 Start seasonal maintenance program
600 – 750mm		750mm+/Irrig			
Kidman, Impact 2, Maxsyn	10 – 15 kg/ha	Shogun, Bealey, Viscount		15 – 25 kg/ha	
Renovator 700	12 – 20 kg/ha	Renovator Elite, HR		15 – 25 kg/ha	
Winter herbicides for annual grasses and/or broad-leaved weeds	 Fertiliser N,K,S to maximise production	 Silage / hay making, pasture topping. Stop weed-seed set with herbicides or good		Rotationally graze, do not overgraze good pastures	 Continue seasonal maintenance program

grazing management



Pasture and forage ready reckoner Temperate grasses and pasture legumes

	Plan for	Barenbrugís proprietary variety		Use pattern	Typical kg/ha	Similar fit to:
Perennial ryegrass	Early (-14)	Kidman	dip	NEA2, persistence, dry areas, unique low AMH	15 – 25	Fitzroy, Kingsgate, Avalon, Vic-types
5 ñ 8 years+	Mid (+5)	Governor NEW	dip	AR1, utility perennial, suits most systems	15 – 25	Bronsyn, Excess, Samson, Nui, Arrow
	Mid-mid late (+8)	Maxsyn ^{NEW}	dip	NEA4, high performance, utility perennial	15 – 25	Alto, Bronsyn, Excess
	Late (+16)	Impact 2	dip	NEA2, performance with high persistence	15 – 25	One50, Prospect, Ultra, Matrix, Impact
	Late (+18)	Rohan	dip	NEA2, persistent, spreading type, sheep/beef	15 – 20	Expo, One50
	Late (+19)	Viscount NEW	tet	NEA4, improved winter and early spring performance	20 – 30	Base, Halo, Banquet 2, Bealey
	Very late (+25)	Bealey	tet	NEA2, highest performance perennial	20 – 30	Base, Halo, Viscount
Hybrids 3 ñ 5	Very early (-17)	Barberia	dip	Winter feed, multiple years, dry tolerant	15 – 25	Unique variety
years+	Very late (+26)	Shogun	tet	NEA, high performance, oversowing	20 – 30	Ohau, Optima, Jeta, Reward, Tonnus
Italian ryegrass	Late (+19)	Hulk	dip	Utility biennial, mid-late season	15 – 25	Crusader, Indulgence, Sonik, Icon
1 ñ 2 years	Late (+18)	Tempo	dip	High performance diploid	15 – 25	Tabu, Knight, Concord 2, Asset
	Late (+15)	Arise ^{NEW}	tet	Highest performance biennial, late season	20 – 30	Feast 2, Jeanne, Thumpa, Nourish, Aston
Annual ryegrass	Early (-3)	GrassMax ^o	dip	Autumn and winter, spring quality not important	20 – 30	Tetila, Tetrone, DiamondT
8 ñ 12 mths	Mid-late (+10)	Vortex	tet	Newest mid-late season, fast establishing	20 – 30	Wístar 2, Mach1, Adrenalin, Jivet
	Very late (+17)	Fuze New	dip	High performance annual, excellent late quality	15 – 25	Sultan, Flyer
	Very late (+23)	Hogan	tet	High performance annual, excellent late quality	15 – 25	Zoom, Ascend
Tall fescue	Winter active	Prosper		Winter dominant rainfall, summer dry	5 – 15	Resolute, Flecha, Fraydo, Origin
	Summer active	Fortune NEW		Flats, damper soils, irrigation, summer moisture		Hummer, Quantum II, Dovey, Tower
Phalaris	Low pH	Advanced AT		Low pH and Al ³⁺ tolerance, rotation graze, winter active	2-6	Unique Al tolerance, Landmaster
	Set-stock	Holdfast GT		High grazing tolerance, most soils, winter active	2-6	Holdfast, Sirolan, Lawson
Cocksfoot	Summer dormant	Summadorm NEW		Extensive, early areas, summer dry	2 – 4	Kasbah, Uplands, Yarck
	Intermediate	Howlong		Versatile, extensive beef/sheep, lighter soils	2 – 4	Porto, Kara, Vision, Tekapo, Wana
	Summer active	Safin		Summer rainfall, milder climates, high output	2-6	Grassly, Greenly, Lazuly, Savvy
Brome	Winter active	Bareno		Winter growth, standing summer feed	15 – 30	Atom, Exceltas, Matua



	Plan for	Barenbrugís proprietary variety		Use pattern	Typical kg/ha	Similar fit to:
White clover	Large leaf	Storm		Intensive dairy/beef/lamb, high yield	2-5	Mink, Legacy, Kopu, Tribute, Will
	Medium leaf			Extensive grazing beef/sheep, dryland dairy, utility	2-5	Bounty, Prestige, Sustain, Demand
	Small leaf	Apex		Extensive sheep/beef, close grazing	2 – 5	Tahora, Prestige
Red clover	Med-large leaf	Morrow NEW		Intensive grazing dairy/beef/lamb	2-6	Collenso, Astred, Hamua, USA Red
Sub clover	Very early	Losa	sub	Early country, extensive sheep/beef, acid-neutral	4-8	Dalkeith, Nungarin, Dalsa, Izmir
	Early	Mawson	bchy	Early areas, heavy soils, sheep/beef, neutral-alkaline	6 – 10	Unique early brachy
	Mid	Monti	yan	Mid-season for most areas, acid-neutral	4 – 8	Hatrick, Riverina, Trikkala
	Mid	Mintaro bchy		Mid-season for most areas, neutral-alkaline	6 – 10	Clare, Clare 2
	Mid-late			Sheep/beef/dryland dairy, most soils, low pH	4 – 8	Urana, Goulburn, Coolamon
	Mid-late	Gosse	yan	Sheep/beef/dryland dairy, heavier soils	4 8	Larisa, Napier, Trikkala
	Mid/late-late	Antas	bchy	Highest performance. All stock classes	6 – 12	Clare, Mintaro
	Late	Denmark	sub	Productive, low pH, higher rainfall	4 – 8	Leura, Rosabrook, Ovaflow
Annual clover	Early	Cefalu	A-leaf	Most soils, low-neutral pH, HDL mixes	3 – 6	Arrowleaf (common)
	Early - mid	Nitro Plus	Pers.	Hard-seeded Persian for early areas	2-6	Kyambro, SARDI
	Mid	Lightning	Pers.	Low-neutral pH, hay/silage mixes, HDL mixes	2-6	Shaftal
	Mid-late	Vista	Bal.	Low-neutral pH, hay/silage mixes, HDL mixes	1 – 4	Bolta, Viper, Paradana
	Mid-late	Zulu II Aleaf		Deep loamy/sandy soils, low pH	3-6	Arrowtas, Zulumax
	Late - very late	Laser Pers		Most soils, neutral pH, hay/silage, HDL mixes	2-6	Shaftal, Turbo
Medics	Early	Sultan-SU barrel		Extensive crop/sheep zone, SU tolerant	2 – 10	Caliph, Parabinga, Jester
	Early - mid	Scimitar	burr	Crop/sheep zone, salinity tolerant	2 – 10	Santiago, Cavalier







Pasture legumes

Lucerne, Forages and Fodder Crops

	Plan for	Barenbrugís proprietary variety	Dormancy	Use pattern	Typical kg/ha	Similar fit to:
Lucerne	8 years+	SARDI-Grazer	6.5	Extensive grazing and under cropping	8 – 20	SARDI 5, Stamina 6, GTL60
	5 – 8 years+	SARDI 7 Series 2	7.4	Grazing, hay, general purpose	8 – 20	SARDI 7, Haymaster 7, Aurora
	5 – 8 years+	Genesis II	7	Grazing, hay, general purpose	8 – 20	Titan 7, L70, L71, Force 7, Q75
	3 – 4 years+	SARDI 10 Series 2	10	Winter grazing, highest hay potential	8 – 20	Force 10, ML99, SARDI 10
Forage brassicas	Leafy Turnip	Falcon		6–8 weeks, broad application	4 – 6	Pasja, Hunter
	Rape	Leafmore		8–12 weeks, extensive sheep/beef	3 – 5	Winfred, Rangi, Bonar, Sub-zero
	Rape	Interval		10–12 weeks, intensive systems	3 – 5	Greenland, Goliath, Titan
	Turnip	Dynamo		12–14 weeks, all stock classes	2-4	Barkant, Marco, MPT, New York
	Kale	Caledonian		16–20 weeks, intensive systems	4 – 6	Kestrel, Sovereign, Voltage
Chicory	1 – 3 years+	Commander		Short-term quality forage, summer active	4 – 8	Choice, Grouse, Chico, Puna 2, 501
Forage cereals	Oats	Mammoth or Expre	ss	Feb - May sowing, graze/silage/hay	40 – 100	Quamby, Graza, Wintaroo, Outback
	Triticale	Crackerjack 2		Mar - Jun sowing, graze/silage	40 – 110	Granador, Endeavour
	Barley	Dictator 2		Apr - Aug sowing, graze/silage/hay	40 – 120	Moby, Sthn Green
Summer forages	Forage Sorghum	Nudan	Med - Late	Oct-Dec sowing, graze/silage/hay	10 – 25	Sud x Sud, fine stems, good tillering
	Forage Sorghum	Revolution BMR	Med - Early	Oct-Dec sowing, graze/silage/hay	10 – 25	BMR Sorg x BMR Sud, early vigour and quality
	Forage Sorghum	Lush	Med - Early	Oct-Dec sowing, graze/silage/hay	10 – 25	Sorg x Sud, early feed and regrowth
	Forage Sorghum	Hunnigreen	Late	Oct-Dec sowing, graze/silage/hay, standover	10 – 25	Sweet x Sorg, increased ME at maturity
	Hybrid Pennisetum	Pearler Late		Nov/Dec sowing, graze/silage/hay	5 – 25	High feed quality and improved yield
	Forage Maize	Summer Green		Oct-Dec sowing, graze/silage	40 – 60	Greenfeast, Greenfeed



	Plan for	Barenbrugís proprietary variety	Туре	Use pattern	Typical kg/ha	Similar fit to:
Vetch	Early	Volga		com Soft seed, winter feed, cereal hay, low rainfall		Rasina
	Mid	Morava	com Soft seed, hay, low-med rainfall		30 – 50	Blanchfleur
	Early - Mid	RM4	woolly	Soft seed, hay, grazing, green manure	20 – 40	Capello
	Mid	Capello	woolly	Partly soft seed, hay, grazing, green manure	20 – 40	Namoi
	Mid-late	Haymaker	woolly	Hard seed, intensive hay, grazing, green manure	20 – 40	Popany

Notes:

NEW varieties subject to commercial release dates, stock availability and programmed introduction.

dip = diploid, tet = tetraploid; lucerne numbers indicate dormancy group; sub = ssp subterraneum, yan = ssp yanninicum, bchy = ssp brachycalycinum

Sowing rates: general guide, lower rates for dryland / low rainfall sites, or guide for inclusion in a mix; higher rate for pure/dominant stand.

Pasture mix quide:

Dryland: 15 – 25kg/ha (10 – 15kg grass + 5 – 10 kg legume/ha) Med/high rainfall/Irrig: 20 – 30kg/ha (15 - 25kg grass + 4 – 8kg legume/ha)

Help with pasture and forage development plans

Managing a pasture is just as important as choosing the right seed. Our highly experienced team of Territory Managers can offer valuable and timely advice to guide farmers, agronomists and retailers in making the right decision.

Barenbrug's Territory Managers have an intimate knowledge of the eco-agricultural aspects of their area plus the resources and back-up from regional agronomists and techinal support from research, seed production and plant breeding nationally and internationally.

Your Territory Manager can offer guidance on such things as:

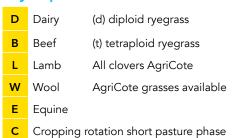
- Pasture and crop economics
- Crop sequencing
- Paddock selection and preparation
- Fertiliser
- Weed and pest control
- Grazing managment

- Animal production and health issues
- Fodder conservation
- Lawns and turf
- Winter grain and summer grain crops
- Temperate and tropical species
- Seed treatments.

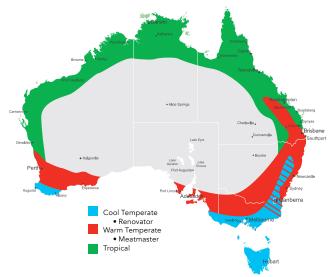
Temperate premium pasture blends

The Renovator® and Meatmaster® temperate range of pasture blends provide farmers with the right mix necessary to produce superior results and superior pastures. They are premium seed blends formulated using Barenbrug's strong agronomic, technical and research advantage. They are designed using only the highest quality seed and are 'ready to sow' providing livestock farmers with the best possible pasture outcomes.

Key to pasture blend charts



In circumstances where specific varieties are not available, an appropriate alternative may be substituted that suits the agronomic application.



Meatmaster pasture blends - 2021/22 guide

•				
Plan for	Min.av.rain	Suitable option	Conta	ains % by weight:
Oversowing, performance D B L C	650mm+	MM B-Double Mix 15 – 25 kg/ha (25kg/ha for a pure stand)	60% 40%	Bealey NEA2 perennial ryegrass (t) Barberia hybrid ryegrass (d)
3 ñ 4 years+ Specialty finishing blend D B L	650mm+	Meatmaster LC 20 – 25 kg/ha	25% 75%	Commander chicory SARDI 7 Series 2 lucerne
5 ñ 10 years+ Summer rainfall D B L C	650mm+	Meatmaster HP 18 – 25 kg/ha	75% 10% 15%	Fortune summer active tall fescue Storm white clover Morrow red clover
5 ñ 10 years+ Hardy blend for late areas	500mm+	Meatmaster 500 18 – 20 kg/ha	30% 20% 20% 10% 10%	Fortune summer active tall fescue Prosper winter active tall fescue Holdfast GT phalaris Mintaro sub clover Campeda sub clover SARDI- Grazer lucerne
D B L W E C			10%	SARDI- Glazer lucerne
5 ñ 10 years+ Hardy beef and sheep blend B L W E	400mm+	Meatmaster GT 8 – 15 kg/ha	45% 27.5% 27.5%	Holdfast GT phalaris Campeda sub clover Mintaro sub clover
5 ñ 10 years+ Hardy beef and sheep blend B L W E	400mm+	Meatmaster AT 12 – 18 kg/ha	30% 10% 30% 30%	Advanced AT phalaris Howlong cocksfoot Campeda sub clover Monti sub clover
Tyear+ Hardy beef and sheep blend D B L W C	550mm+	Meatmaster ST 25 kg/ha	80% 10% 10%	Vortex annual ryegrass (t) Laser (Persian) annual clover Vista balansa clover

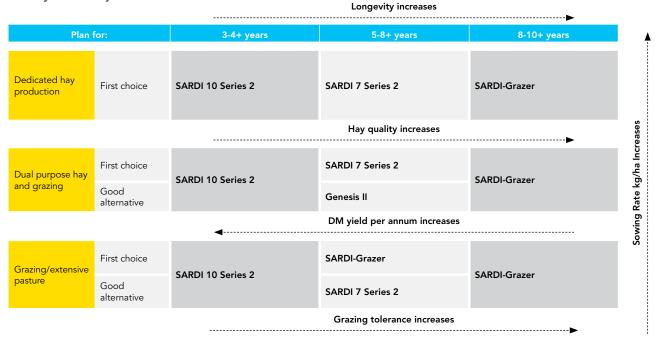
Renovator pasture blends - 2021/22 guide

Plan for	Min.av.rain	Suitable option	Contains % by weight:	
5 years+			50%	Bealey NEA2 perennial ryegrass (t)
11:1		Renovator HR	34%	Impact 2 NEA2 perennial ryegrass (d)
Highest performance	700mm+	25 – 30 kg/ha	8%	Storm white clover
D B L			8%	Weka white clover
5 years+			40%	Rohan NEA2 perennial ryegrass (d)
Performance, wet sites	700mm+	Renovator 850i	40%	Impact 2 NEA2 perennial ryegrass (d)
		25 kg/ha	10%	Storm white clover
D B L E			10%	Weka white clover
3 years+			50%	Bealey NEA2 perennial ryegrass (t)
Oversowing, performance	550mm+	Renovator Elite	50%	Shogun NEA hybrid ryegrass (t)
D B L C		20 – 30 kg/ha		
			20 521	KIL NEAD
5 years+			32.5%	Kidman NEA2 perennial ryegrass (d)
D (765	Renovator 700+	32.5%	Impact 2 NEA2 perennial ryegrass (d)
Performance, dry summers	700mm+	25 kg/ha	10%	Storm white clover
			12.5%	Monti sub clover
D B L W E			12.5%	Denmark sub clover
5 years+			30%	Kidman NEA2 perennial ryegrass (d)
o youre.			30%	Barberia hybrid ryegrass (d)
Hardy, winter performance	550mm+	Renovator Grazier	10%	Howlong cocksfoot
naray, winter perfermance	33011111	12 – 25 kg/ha	15%	Monti sub clover
B L W E			15%	Campeda sub clover
5 ñ 10 years+			32.5%	Fortune summer active tall fescue
Hardy, long-term pasture			20%	Barberia hybrid ryegrass (d)
Salinity, drought, acidity tol.	450mm+	Renovator 500+	10%	Howlong cocksfoot
Heavier soils, potentially wet sites		12 – 18 kg/ha	10%	Holdfast GT phalaris
B L W E			20%	Monti and Denmark sub clovers
B L W E			7.5%	Palestine strawberry clover
5 ñ 10 years+			20%	Holdfast GT phalaris
Persistent and productive			7.5%	Howlong cocksfoot
Long-term pasture	F00 .	Renovator GT	35%	Kidman NEA2 perennial ryegrass (d)
Extensive grazing	500mm+	12 – 18 kg/ha	15%	Mintaro sub clover
Most soil types, drought tolerant			15%	Campeda sub clover
B L W E			7.5%	Storm white clover
1 ñ 2 years			30%	Tempo Italian ryegrass (d)
All-year feed + hay/silage		Renovator SR	50%	Hogan annual ryegrass (t)
All-year feed + flay/sliage	550mm+	25 kg/ha	20%	Laser (Persian) annual clover
D B L C			2070	Zado. (Corolary armidal crosso
3 years+			60%	Bealey NEA2 perennial ryegrass (t)
•		Renovator Allgrass	40%	Barberia hybrid ryegrass (d)
Oversowing, performance	550mm+	12 – 18 kg/ha	.5,5	- , , - 0 (-)
D B L C		(use 25kg/ha for a pure stand)		
<u>-</u>			200/	E
5 years+		Renovator Equine	30%	Fortune summer active tall fescue
Quality horse pasture	550mm+	30 – 50 kg/ha	30%	Governor AR1 perennial ryegrass (d)
B L W E			40%	Barberia hybrid ryegrass (d)

Lucerne preparation check-list

Question?	Yes	No ñ Action required
Lucerne not grown in site for at least 2 years	ОК	Crop for at least 2 years with alternative species.
Drainage OK (casual water lays < 1 day)	ОК	Improve drainage or select alternative site.
pH (CaCl ₂) > 5.7	OK	Increase pH through liming or select alternative site.
Exchangeable Al³+ < 5%	ОК	Decrease aluminium at depth through liming over a number of years or select alternative site.
Weed burden previously reduced	ОК	Crop for 1 – 2 years with cereals or other grain crops, paying attention to weed control.
Irrigation available	Spring sow OK	Autumn or early spring sow.
Winter active variety (dormancy rating > 6)	Autumn or spring sow OK	Spring sowing recommended in winter cold areas, for winter dormant varieties.

Variety to fit the job



Lucerne sowing rates

Annual rainfall	350 mm – 450 mm	450 mm – 600 mm	600 mm – 800 mm	800 mm+/Irrigated
kg/ha	4 – 6	6-8	10 – 12	15 – 25

It is strongly recommended that prior to sowing, a pre-plant pre-emergent herbicide be considered. Herbicides such as trifluralin and pendimethalin are commonly used with good success. Consult an agronomist and check label instructions before proceeding. Low-till/no-till systems can be used to good effect, but paddock preparation, weed burden and herbicide spray systems need to be considered and prepared for prior to sowing.

Lucerne stand thinning out?

Sometimes after a number of years, lucerne plant numbers in a paddock may reduce to lower than desirable levels, but the lucerne stand may still be the best option for a while yet. It can be a very useful strategy to over-sow the stand with a suitable companion species. If a full lucerne stand is required on that site, then it is better to terminate the existing lucerne, crop for a few years, address reasons for decline, and then re-sow. In winter dominant rainfall zones the following examples may be considered.

For winter dominant rainfall zones

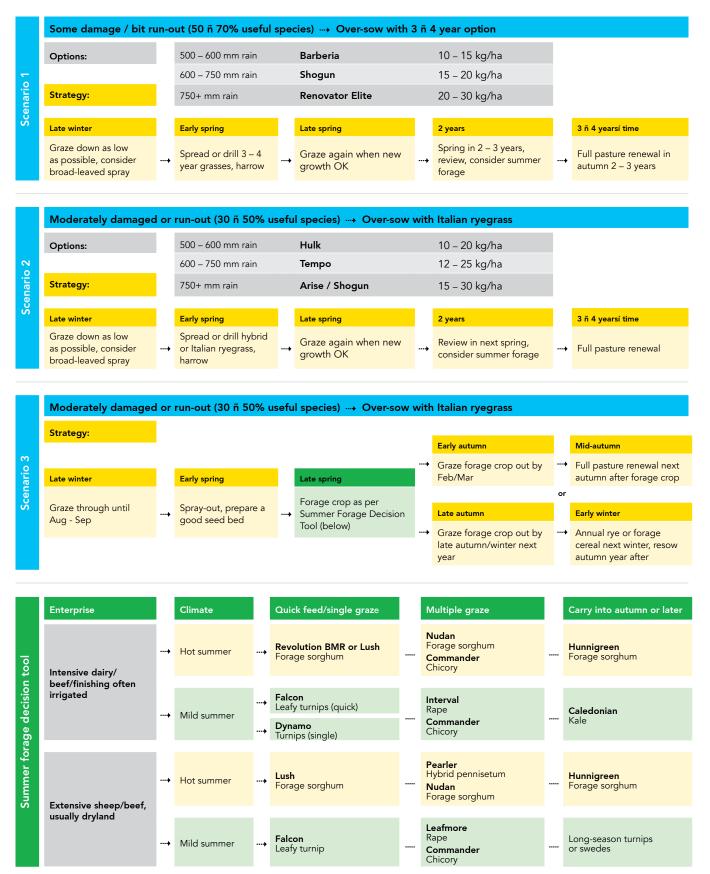
Desired outcome:		350 mm ñ 450 mm	450 mm ñ 600 mm	600 mm ñ 800 mm	800 mm+/Irrigated		
		Over-sow in autumn with a one-year species, terminate crop in following summer.					
Keep lucerne for 1 more year		Express Forage oat	Vortex Annual ryegrass	Fuze Annual ryegrass	Hogan Annual ryegrass		
		20 – 60 kg/ha	10 – 15 kg/ha	10 – 15 kg/ha	15 – 20 kg/ha		
		Over-sow with a biennial species. Consider chicory for stands with many grass-weeds.					
Keep lucerne for 2 more years		Hulk Italian ryegrass	Tempo Italian ryegrass ←····→	Commander Chicory +	Arise Italian ryegrass		
		8 – 12 kg/ha	10 – 15 kg/ha	4 – 8 kg/ha	15 – 20 kg/ha		
		Over-sow with a long-rotation grass.					
Keep lucerne for 3 - 4 more years*		Bareno Grazing brome	Barberia Hybrid ryegrass	Shogun Hybrid ryegrass	Shogun Hybrid ryegrass		
		6 – 10 kg/ha	10 – 12 kg/ha	12 – 15 kg/ha	15 – 20 kg/ha		
	Over-sow in autumn with a one-year species, terminate crop in following						
Keep lucerne indefinitely*	>	Holdfast GT Phalaris	Holdfast GT Phalaris	Impact or Maxsyn Perennial ryegrass	Bealey Perennial ryegrass		
		2 – 3 kg/ha	3 – 5 kg/ha	10 – 15 kg/ha	15 – 20 kg/ha		
Full lucerne stand required		Terminate current stand. Crop for 2 years minimum to utilise nitrogen fixation from the lucerne. Address reasons for decline such as weed burden, fertility, pH, drainage, cultivar disease susceptibilty, prior to re-sowing lucerne.					

Notes:

←---> = interchangeable

^{*} In low-medium rainfall areas, an alternative to oversowing with grass is to consider introducing 6 – 8 kg/ha of one or two sub-clovers that suit the environment. Antas should be considered as a very good option for 3 – 4 years, Mintaro, Campeda and Monti for a longer time-frame.

Spring strategies for run-out and winter damaged pastures





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