



Morrow MS

Red clover

Legumes & Herbs

Stock Type Dairy, Sheep, Beef, Deer

Grow. Graze. Repeat. *Morrow* multi-stemmed (MS) red clover brings better grazing tolerance to NZ farmers, plus high yield in summer and autumn.

Great pedigree

Morrow comes from a tough family. Most red clovers wouldn't last long under intensive rotational dairy grazing on light, upper North Island soils. But *Morrow's* parents did. Over time, they adapted, survived, and produced well, even after repeated droughts.

We took plants from these old NZ pastures, and selected the best of them for high yield, persistence and flowering to create a multi-stemmed red clover with improved production and persistence under grazing.

Quality + yield when it counts

High energy and high yield together create ideal late spring and summer finishing feed, giving great quality as grass energy levels drop, and driving rapid liveweight gains for lambs and cattle.

Red clover seasonal yield in dryland Canterbury*

Entry	Early Spring		Late Spring		Summer		Autumn		Winter		Total Yield	
<i>Morrow</i>	6.4	a	7.0	a	7.4	a	7.7	a	5.4	a	6.8	a
<i>Tuscan</i>	6.1	ab	6.7	a	5.5	b	6.0	ab	6.1	a	6.1	ab
<i>Rossi</i>	5.2	ac	5.7	ab	5.3	bc	6.3	ab	5.5	a	5.5	b
<i>Relish</i>	4.3	c	4.3	b	3.7	c	5.3	b	3.0	b	4.0	c
Trial mean	4.9		5.6		5.4		5.8		4.4		5.3	
%CV	20.1		18.0		16.5		18.4		21.3		12.8	

*Data from 2 years of pure sward trial, grazed by sheep. Trial sown 2016. Yield visually scored on 1-9 basis, where 9 = highest yield.

Longevity

Red clover's biggest drawback has always been limited persistence under grazing. *Morrow's* improved grazing tolerance – helped by its high stem count and semi-prostrate form - means it keeps animals happy year on year. Like all red clovers, it persists best on free-draining soils under a longer summer grazing round.



Heads down - excellent summer yield and feed quality make *Morrow* ideal for finishing.

CRW tolerance

Red clover is less bothered than white clover by clover root weevil. Sow *Morrow* and you get more diverse pastures with strong legume content.

Free N

Red clover naturally fixes its own nitrogen. Based on its yield, *Morrow* can fix over 200 kg N/ha, or about about 25 kg/N per tonne of dry matter grown.

Phyto-oestrogen levels

Morrow has low-medium phyto-oestrogen levels. Even so, take care with ewes or hoggets 3-6 weeks either side of mating. High red clover intake at this time is best avoided.



Sowing Morrow

All systems		kg/ha
Productive, persistent clover combination	Perennial ryegrass	18-30
	<i>Morrow</i> red clover	6
	<i>Kotuku</i> or <i>Ruru</i> white clover	4
	Total	28-40
Sheep, Beef, Deer		kg/ha
Two year high LWG finishing Crop	<i>Captain</i> CS plantain	10
	<i>Laser</i> Persian clover	4
	<i>Morrow</i> MS red clover	6
	<i>Ruru</i> white clover	4
	Total	24
Tetraploid perennial ryegrass - finishing		kg/ha
Fantastic feed quality and animal performance	<i>4front</i> tetraploid perennial ryegrass	24
	<i>Ruru</i> white clover	2
	<i>Apex</i> white clover	2
	<i>Morrow</i> MS red clover	6
	<i>Captain</i> CS plantain	2-4
	Total	36-38

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Better pasture together™

