



4front Perennial Ryegrass

Pasture Grasses

Endophyte

NEA2, Low

Stock Type

Dairy, Sheep, Beef, Deer

4front is the benchmark in tetraploid perennials, with superior year-round growth, enhanced persistence, easy grazing and excellent animal performance. It's better for the environment, too.

Best of the best

4front grows more feed than any tetraploid perennial we've bred. Equally important? It achieves this in both cool and warm conditions.

Unbeaten in NFVTs

In the 2024-25 National Forage Variety Trials (NFVT) results, no other tetraploid perennial grew more total yield across all New Zealand trials.

Piece of cake!

Animals love tetraploids. That simplifies grazing management. Soft, high quality, legume-friendly tetraploid pasture makes life easier for your animals, too. Every bite takes less effort, encouraging animals to eat more for higher daily intakes. The result? More milk in the vat, and faster LWG for finishing stock.

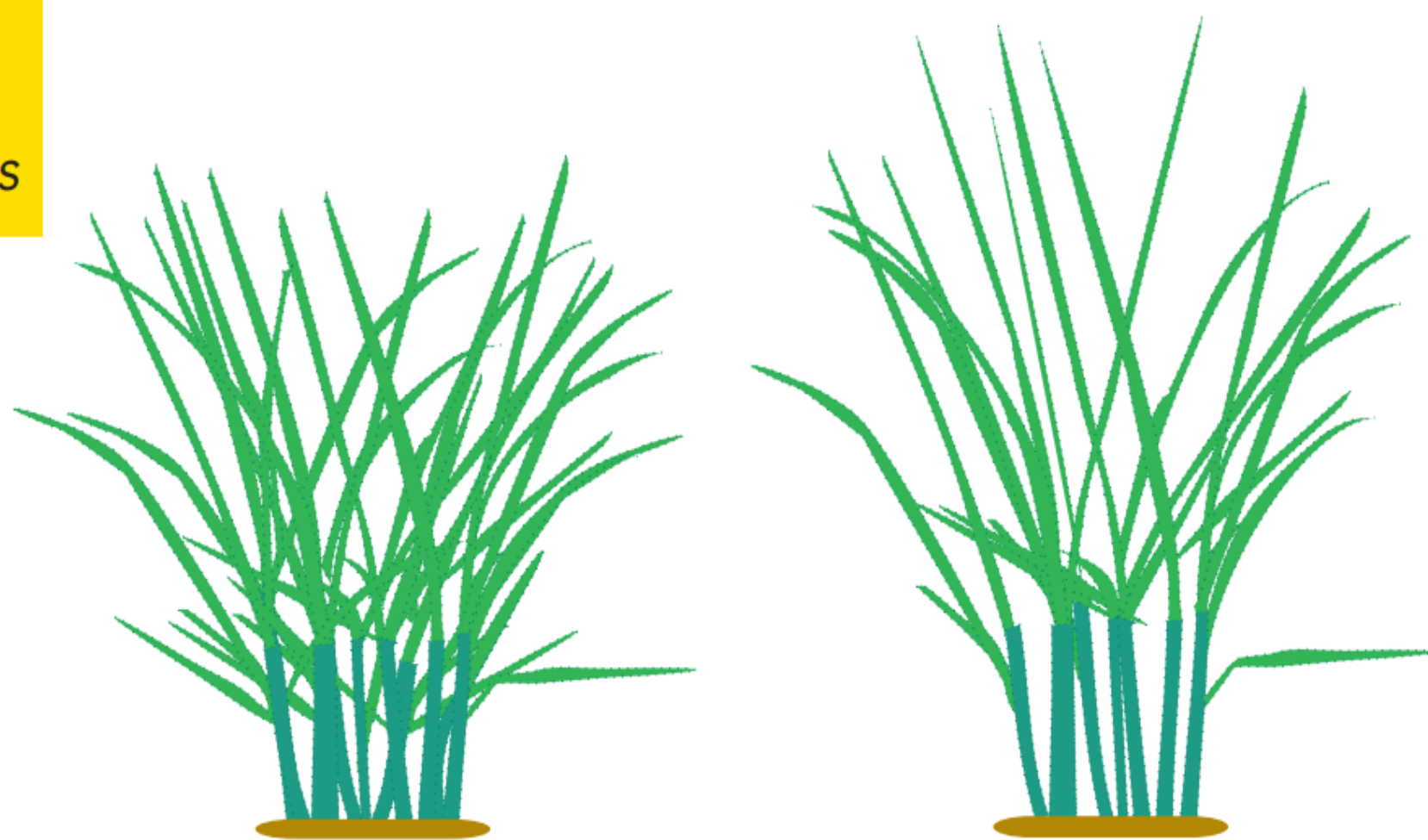
Grazing is hard work! A cow on pasture might take 25,000 bites every day; a ewe, 40,000. 4front's soft leaves make a big difference to their quality of life.



More tillers

4front - many
more tillers
add robustness

Traditional
tetraploid



The more tillers in a pasture, the more robust it is. Each tiller is an individual which can be killed by many pressures, including drought, pugging, insects and overgrazing. *4front*'s enhanced tillering helps it persist when conditions are tough.

Lose less N & GHG

With higher animal intakes and easier management, *4front* can help lighten your farm footprint. Tetraploid ryegrass-based pastures, or tetraploid/diploid mixes, allow farm system changes to reduce nitrogen leaching while improving pasture growth and animal intakes. This is the future of NZ farming.

A dramatic example of this is the Lincoln University Dairy Farm (LUDF). It has cut nitrogen leaching by 40% and greenhouse gases (GHG) by about 22%, using several system changes including:

- Capturing more photosynthesis – pre-grazing covers are 300 kg DM/ha higher with tetraploids, growing an extra 1.2 t DM/ha/year across the whole farm.
- Longer grazing round (average +4 days) meaning fewer grazings per paddock and 30% better nitrogen use efficiency.
- Higher cow production (+26 kg MS/cow) from fewer cows and better pasture intakes.
- Applying 170 kg/ha/year less nitrogen fertiliser.

LUDF couldn't have achieved this without sowing tetraploid ryegrass in all but one paddock. Download "The *4front* System" from www.barenbrug.co.nz for more.

Mixing 4front & Maxsyn or Array

4front can be sown alone on many farms, but when you mix it with Maxsyn or Array diploid perennial ryegrass, its benefits can be extended to a wider range of farm systems.

Some farmers struggle to avoid over grazing straight tetraploids, and don't get the persistence they want. Adding a denser, finer diploid ryegrass to the mix makes it more robust. Diploid plants protect the tetraploid.

Very low chance of staggers

For dairy cows and beef cattle, 4front provides ryegrass staggers free pasture. For sheep and deer, ryegrass staggers grazing NEA2 endophyte is a very low risk. In extreme situations, such as drought where animals are forced to graze close to the ground, a low level of staggers might very occasionally be seen.

Sowing 4front

Dairy		kg/ha
Top performing tetraploid pasture, with reduced N leaching.	4front perennial ryegrass	25-30
	Kotuku white clover	2
	Ruru white clover	2
	Captain CS plantain	2-4
	Total	31-38
Dairy		kg/ha
Top performing tetraploid/diploid mix pasture, for greater robustness & density.	4front perennial ryegrass	15
	Maxsyn or Array perennial ryegrass	10
	Kotuku white clover	2
	Ruru white clover	2
	Total	29
Sheep, Beef, Deer		kg/ha
Top performing tetraploid/legume/plantain finishing pasture.	4front perennial ryegrass	22-25
	Ruru white clover	3
	Morrow red clover	4
	Captain CS plantain	2-4
	Laser Persian clover	3
Total		34-39

4front Perennial Ryegrass is owned and marketed by Barenbrug.
4front Perennial Ryegrass is protected under the NZ Plant Variety Rights Act