



# Agrinote



## One smart grass

**Align** is a high performance tetraploid perennial ryegrass that is productive throughout the year providing resilient, quality drymatter for modern production systems.

- High annual yields
- Very strong summer and autumn growth
- Excellent crown rust tolerance
- Ideal for dairy pastures, and sheep and beef finishing

**Align** is characterised by a dense and productive growth habit throughout August and September. This can be a period of wet soils when most pasture damage occurs and it's a time when broad upright tetraploids often can be severely damaged with normal early spring grazing. **Align's** dense habit creates better ground cover that can be more tolerant in early spring.



**Align** tetraploid perennial ryegrass and Three<sup>60</sup> diploid perennial ryegrass mix in the Waikato.

## Characteristics

Ploidy	Perenniality	Heading Date	Suggested Sowing Rate (kg/ha)	Endophyte	Rust Tolerance
Tetraploid	Perennial	+35*	22-25	AR37	Excellent

\* Nui heading date at 0 days is the 22nd October



The clean and healthy production of **Align** (middle left) is evident after being deferred for 90 days from the end of October 2023 to end of January 2024.



**Align** (right) showing quality and volume on July 13th 2023, 55 days after it's first cut in Waimana, Whakatane.



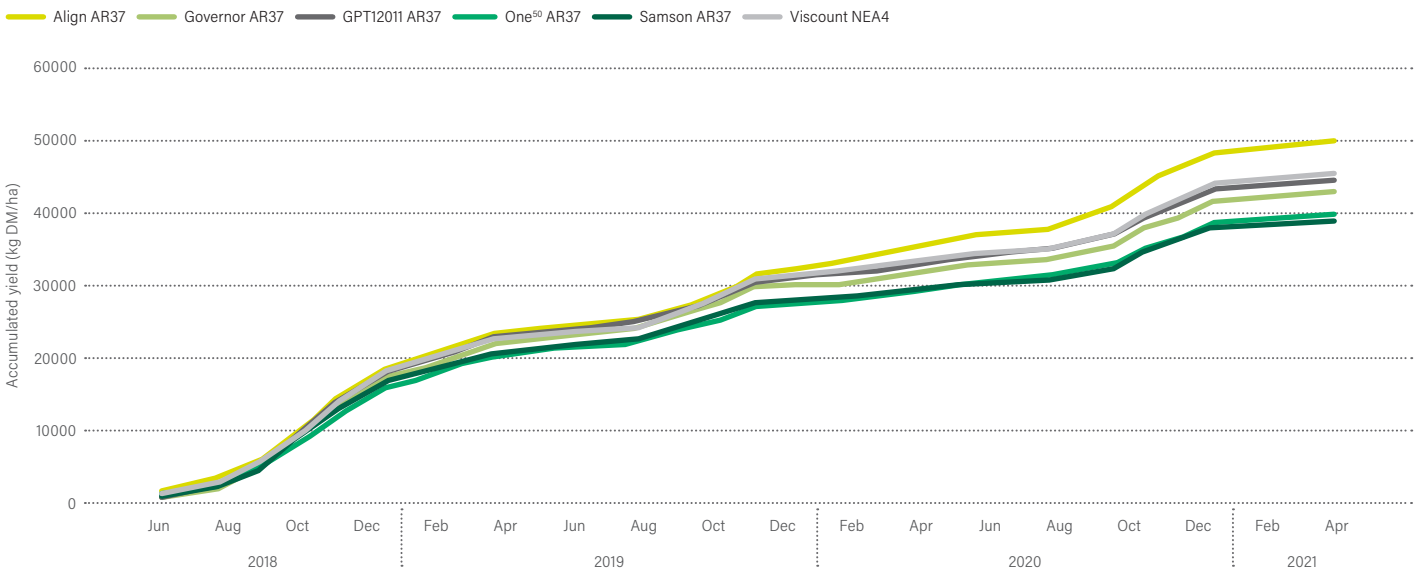
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## Production

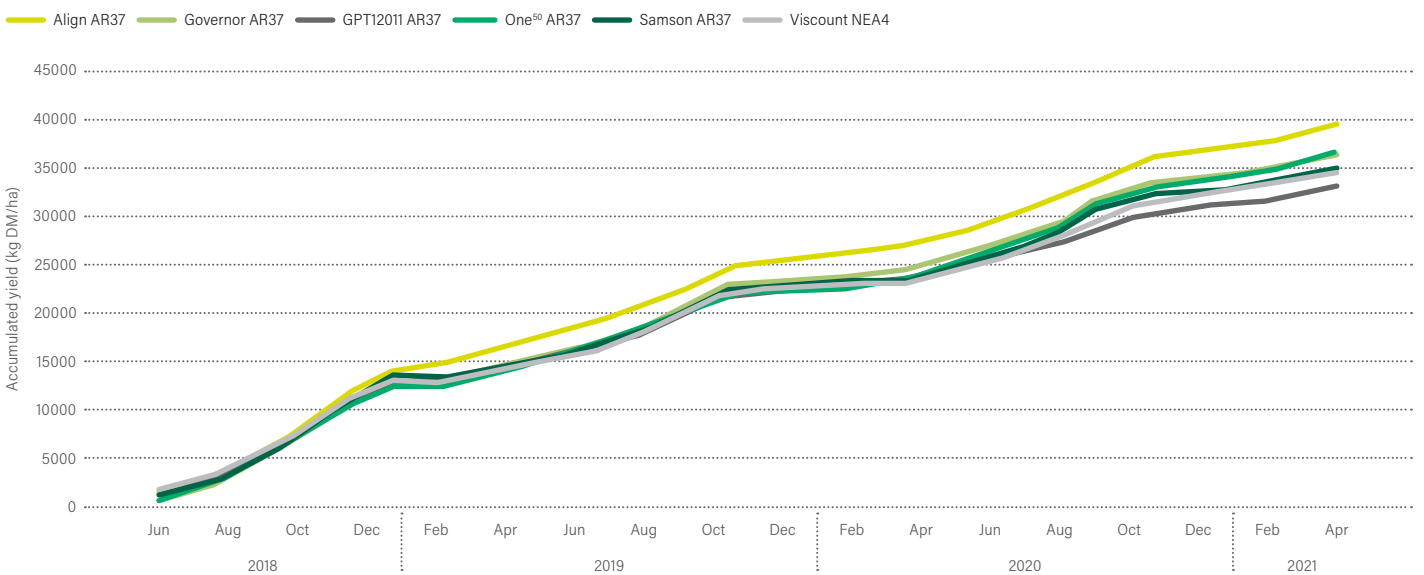
**Align** has outstanding drymatter production with a significant improvement over its predecessor Halo through spring, while having an extremely strong summer autumn and winter growth habit. The accumulated yield graph highlights that yield improvement is constant, as no other cultivars line catches up at any particular time of the year. It also shows how **Align** maintains its productivity over time.

**Figure 1. Accumulated yield of perennial ryegrasses at Lincoln, Canterbury between 2018 and autumn 2021**



Note: the breeding line GPT12011 AR37 was a candidate along with **Align AR37** for commercialisation.

**Figure 2. Accumulated yield of perennial ryegrasses at Ruakura, Waikato between 2018 and autumn 2021**



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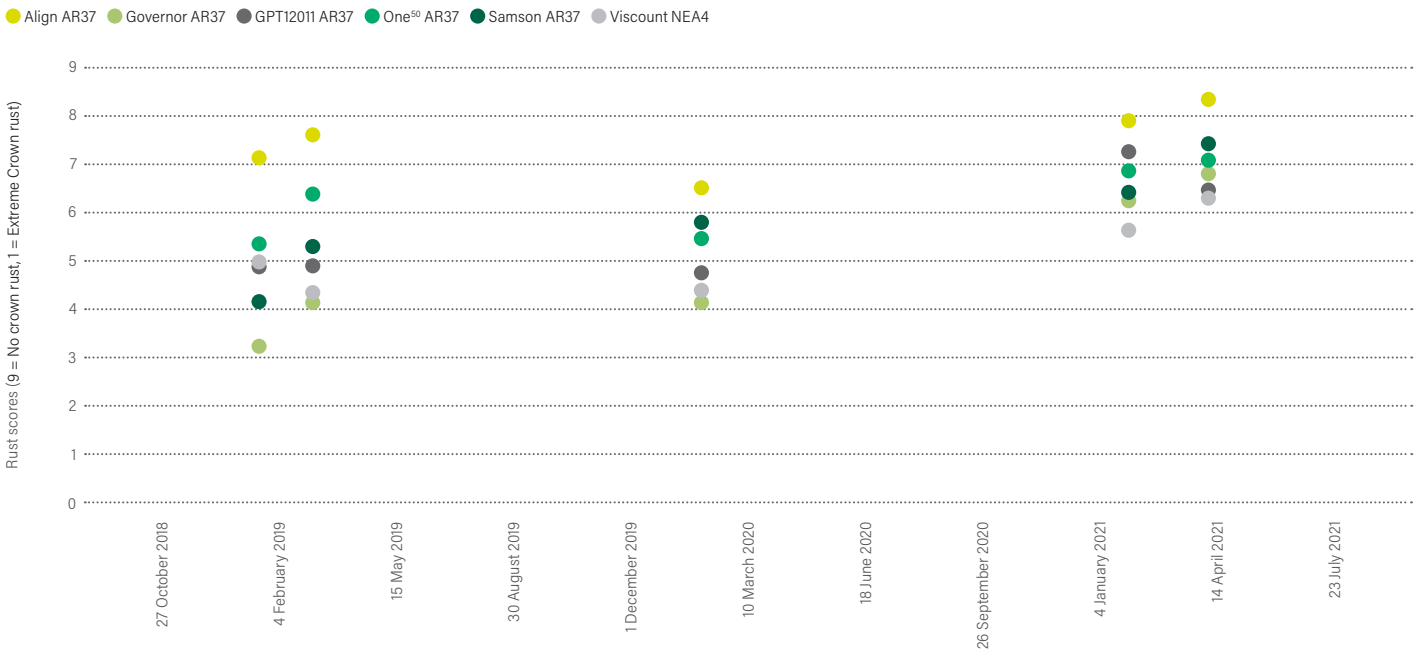
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## Disease and Quality

**Align** is an elite perennial ryegrass for crown rust tolerance and maintains dark green healthy pastures throughout the year. **Align** is a highly vegetative perennial that can be kept in a vegetative state with both dairy grazing rotations and sheep and beef grazing systems.

**Figure 3. Perennial ryegrasses rust scores at Ruakura, Waikato between autumn 2018 and autumn 2021**





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## Example Mixes Include:

### DAIRY PASTURE MIX

**Align** is a perfect ryegrass choice for maintaining peak lactation well into early summer. Its combination of density and yield makes it attractive to dairy farmers who are extending their rotation lengths and are looking for grass to maintain quality at higher pre-grazing yields.

<b>Align AR37</b> tetraploid perennial ryegrass	25 kg/ha
Brace white clover	3 kg/ha
Attribute white clover	2 kg/ha
<b>Total</b>	<b>30 kg/ha</b>

### TETRAPLOID DIPLOID MIXED PASTURE

The ultimate summer pasture combo.

<b>Align AR37</b> tetraploid perennial ryegrass	12 kg/ha
Three <sup>60</sup> AR37 diploid perennial ryegrass	10 kg/ha
Brace white clover	2 kg/ha
Attribute white clover	2 kg/ha
Relish red clover	4 kg/ha
<b>Total</b>	<b>30 kg/ha</b>

### SHEEP AND BEEF MIX

**Align** is tolerant of set stocking for lambing and is the perfect grass for supporting liveweight gain of both ewes and lambs during late lactation. After weaning, pasture quality is maintained through early summer, making **Align** ideal for newly weaned lambs. Combined with legumes and herbs it can create a stunning summer pasture.

<b>Align AR37</b> tetraploid perennial ryegrass	22 kg/ha
Attribute white clover	3 kg/ha
Emblem white clover	2 kg/ha
Relish red clover	4 kg/ha
Choice chicory	1 kg/ha
<b>Total</b>	<b>32 kg/ha</b>