

Agrinote



Pastures for Profit.®



Background

Grasslands **Prospect** is a new-generation perennial ryegrass that has been bred from a combination of genetics derived from late-heading north-west Spanish perennial ryegrass and traditional mid-season heading perennial ryegrasses. Due to **Prospect's** flowering date of +12 days, its peak spring growth is situated between a late-heading ryegrass such as ONE⁵⁰ and mid-season heading perennial ryegrasses such as Commando and Samson.

Prospect is characterised by a dense fine-leaved habit. One of its main strengths is its reliable all-year-round production.

Prospect is a cross between three diverse groups of plant genetics including; plants from a reselection of Grasslands® Impact, plants from perennial ryegrasses selected for aluminium tolerance, and plants from traditional New Zealand mid-season heading perennial material.

In ongoing regional trialling **Prospect** has shown excellent adaptation to a wide range of environments. **Prospect** is suited to a variety of situations from hill country development on sheep and beef farms, where **Prospect** with **AR37** endophyte provides protection from porina attack to highly productive dairy pastures where farmers are seeking a productive, robust pasture.

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Production

Prospect AR37 was selected due to its success in breeding trials where it performed particularly well under the drought and pest conditions of the Waikato between 2008 and 2011. **Prospect AR37** was 19% ahead of the trial mean and was one of the leading diploid ryegrasses within the trial (Table 1).

In a relatively low yielding trial at Lincoln, **Prospect AR37** showed similar seasonal growth trends to the Ruakura trial, with particular strengths in winter, summer and autumn (Table 2).

Farmer feedback on the performance of **Prospect AR37** paddocks has been very positive and has reflected these seasonal strengths.

Table 1. Seasonal and total yields relative to trial mean of **Prospect AR37** after three years in the Ruakura breeder's trial sown in 2008.

Entry	Winter	Spring	Summer	Autumn	Total
Prospect AR37	127	113	120	126	119
Trial Mean of 59 lines* kg DM/ha = 100	1397	4124	2687	1570	9777
LSD5	32	17	20	35	20

* Breeding lines tested included tetraploids, diploids and multiple endophyte combinations and was badly drought affected.

Table 2. Seasonal and total yields relative to trial mean of **Prospect AR37** after three years in the Lincoln breeder's trial sown in 2008.

Entry	Winter	Spring	Summer	Autumn	Total
Prospect AR37	104	100	111	108	105
Trial Mean of 59 lines* kg DM/ha = 100	1524	3397	2340	1379	8640
LSD5	16	23	19	14	16

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Characteristics

Perenniality	Leaf Size	1000 Seed Weight	Suggested Sowing Rate (kg/ha)
96-98% Perennial	Fine	2.4 grams	Pure sward 18-20

Rust Tolerance	Flowering Date	Ploidy	Endophyte Status
Good	+12 days	Diploid	AR37

Key Features

- ✓ **Prospect** has been bred from a diverse range of genetic material
- ✓ Diploid ryegrass with a +12 days heading date
- ✓ Strong all-year-round performance
- ✓ A dense, fine-leaved cultivar with high production, suited to dairy or sheep and beef systems
- ✓ Bred and selected with the **AR37** endophyte
- ✓ **Prospect** is a perennial ryegrass that is certified as a long-rotation

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Suggested Sheep and Beef Mix

Grasslands Prospect AR37 perennial ryegrass	18 kg/ha
Grasslands Tribute white clover	3 kg/ha (bare)
Grasslands Nomad white clover	2 kg/ha (bare)
Grasslands Sensation red clover	4 kg/ha (bare)
Tonic plantain	2 kg/ha (bare)
Total	29 kg/ha

Suggested Dairy mix

Grasslands Prospect AR37 perennial ryegrass	20 kg/ha
Grasslands Mainstay white clover	3 kg/ha (bare)
Grasslands Tribute white clover	2 kg/ha
Total	25 kg/ha

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