

# Agrinote



Pastures for Profit.®



## Background

*Hillary* is a fine-leaved and densely tillered perennial ryegrass, ideally suited to long term sheep and beef pastures. It has a medium heading date.

*Hillary* has excellent persistence in extensive grazing systems with moderately good soil fertility and exposure to periodic moisture stress. *Hillary* AR1 is recommended where persistence is a top priority.

*Hillary* AR1 is one of the first ryegrasses to have been bred with the endophyte AR1 as part of the breeding programme. Seedlings of Grasslands Ruanui were inoculated with AR1 and superior plants identified from spaced plants at Palmerston North. These plants were inter-pollinated and families evaluated at various sites in New Zealand, with the best families being identified and inter-pollinated to produce an experimental bulk. Strong selection for rust tolerance was made throughout this programme.

## Characteristics

Perenniality	Leaf Size	Flowering Date	Suggested Sowing Rate (kg/ha)
100% Perennial	Fine	Mid (+4)	18-20

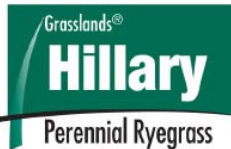
Rust Tolerance	1000 Seed Weight	Endophyte	Ploidy
Very High	2.4 grams	AR1	Diploid

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## Key Features

- ✓ Persistence characteristics under stressful environments
- ✓ Bred with AR1 for persistence
- ✓ Improved grazing tolerance
- ✓ Fine-leaved, densely-tillered perennial ryegrass

## Uses

*Hillary* is suited to sheep and beef properties where ryegrass persistence is very important. It is adapted to most New Zealand environments, especially those with lower fertility, periodic moisture stress, or heavy grazing pressure.

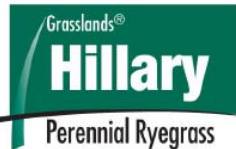
*Hillary* is an ideal grass for hill country development because of the importance of persistence.

*Hillary* AR1 is highly recommended for Southland and Otago. While endophyte infected ryegrass have not been recommended there in recent years, AR1 has no negative effects on animal health or production, but improves persistence where insects are present.

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## Suggested Mixes

### Low-medium summer rainfall, hard grazing

<i>Hillary AR1</i> perennial ryegrass	20 kg/ha
<i>Vision</i> cocksfoot	1 kg/ha
<i>Maru</i> phalaris	2 kg/ha
<i>Nomad</i> white clover (bare seed)	3 kg/ha
<i>Goulburn</i> subterranean clover (bare seed)	7 kg/ha
<b>Total</b>	<b>33 kg/ha</b>

### Medium-good summer rainfall, medium-hard grazing

<i>Hillary AR1</i> perennial ryegrass	20 kg/ha
<i>Sensation</i> red clover (bare seed)	6 kg/ha
<i>Tribute</i> white clover (bare seed)	4 kg/ha
<b>Total</b>	<b>30 kg/ha</b>

### Hard Sheep-Grazing Mix

<i>Hillary AR1</i> perennial ryegrass	20 kg/ha
<i>Nomad or Prestige</i> white clover (bare seed)	4 kg/ha
<i>Tonic</i> plantain	1 kg/ha
	<b>25 kg/ha</b>