

# Agrinote



Pastures for Profit.®



## Background

**Kingston** perennial ryegrass is a mid-flowering diploid perennial ryegrass, with strong early-spring activity. This allows **Kingston** to contribute valuable growth in the critical early lambing and calving period. **Kingston** is one of the more versatile ryegrasses in the Agricom range. A high tiller density gives good tolerance to occasional hard grazing, and winter damage, and allows rapid recovery after grazing.

Part of **Kingston's** breeding has improved tolerance to acid soils containing Aluminium.

**Kingston** has shown particularly strong application to South Island conditions.

## Characteristics

Perenniality	Leaf Size	Heading Date	Ploidy
100% Perennial	Fine-Medium	Medium (-3)	Diploid

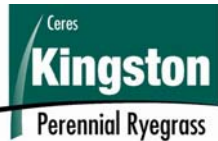
Rust Tolerance	1000 Seed Weight	Endophyte Status	Suggested Sowing Rate (kg/ha)
Good in South Island	2.0 grams	Low & standard endophyte	Pure sward 18-20

Phone + 64 3 341 4580, Fax +64 3 341 4581, PO Box 3761, Christchurch,  
Email: [info@agricom.co.nz](mailto:info@agricom.co.nz), [www.agricom.co.nz](http://www.agricom.co.nz)

# Agrinote



Pastures for Profit.®



## Suggested pasture mix of *Kingston*

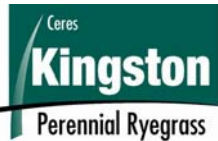
### Environment, less than ideal

Cultivar	Kg/ha
<i>Kingston</i> LE	18
<i>Tribute</i> white clover (bare seed)	4
<i>Colenso</i> red clover (bare seed)	5
<i>Choice</i> chicory	1.5
<i>Tonic</i> plantain	1
<b>Total</b>	<b>29.5</b>

HE version of these grasses can be used in Canterbury.

### Environment, moist, well grazed

Cultivar	Kg/ha
<i>Kingston</i> LE	18
<i>Viking</i> timothy	2
<i>Tribute</i> white clover (bare seed)	4
<i>Colenso</i> red clover (bare seed)	5
<i>Choice</i> chicory	1.5
<i>Tonic</i> plantain	1
<b>Total</b>	<b>31.5</b>



## National Forage Variety Trials

Table 1: NFVT Invercargill (P203INV) Ryegrass Seasonal and Total Yield Relative to Trial Mean = 100.

Entry	Winter	Spring	Summer	Autumn	Total
<i>Cannon LE</i>	100	100	103	102	101
<i>Sterling LE</i>	104	99	102	101	101
<b><i>Kingston LE</i></b>	<b>104</b>	<b>102</b>	<b>99</b>	<b>101</b>	<b>101</b>
<i>Nui LE</i>	98	98	99	100	99
<i>Horizon LE</i>	94	100	97	96	98
Mean (kgDM/ha)	<b>3667</b>	<b>1767</b>	<b>6683</b>	<b>5909</b>	<b>18026</b>

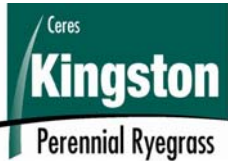
Table 2: P296GOR Ryegrass Yield Divided Seasonally (kgDM/ha), Mean of 3 years

Entry	Autumn	Winter	Spring	Summer	Total
<i>AriesHD HE</i>	4244 a	1791 ce	6786 a	6301 a	19124 a
<i>Supreme Plus LE</i>	3739 bd	1948 b	6848 a	6219 a	18753 a
<b><i>Kingston LE</i></b>	<b>4007 ab</b>	<b>1759 ce</b>	<b>6758 a</b>	<b>6173 ab</b>	<b>18697 ab</b>
<i>Samson LE</i>	3942 ac	1724 de	6784 a	6046 ac	18496 ab
<i>Impact LE</i>	3643 cd	1521 fg	6922 a	5986 ad	18072 bc
<i>Bronsyn LE</i>	3612 d	1497 g	6670 ab	5896 bd	17675 cd
Significance	***	***	***	***	***
CV%	<b>6.23</b>	<b>5.59</b>	<b>3.39</b>	<b>3.78</b>	<b>2.55</b>
LSD 5%	<b>328</b>	<b>143</b>	<b>328</b>	<b>322</b>	<b>664</b>
Mean (kgDM/ha)	<b>3667</b>	<b>1767</b>	<b>6683</b>	<b>5909</b>	<b>18026</b>

# Agrinote



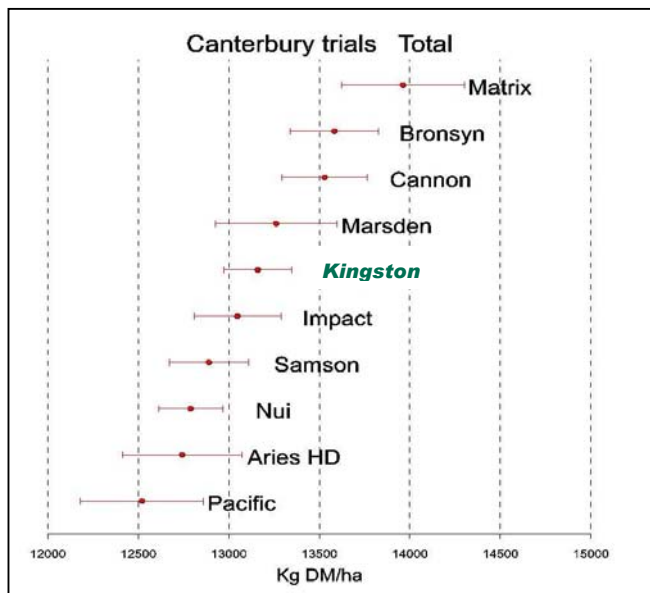
Pastures for Profit.®

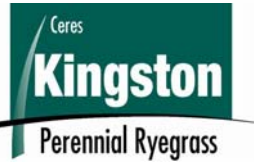


**Table 2a: P296GOR Ryegrass Yield Divided Seasonally, Relative to Trial Mean = 100, Mean of 3 years**

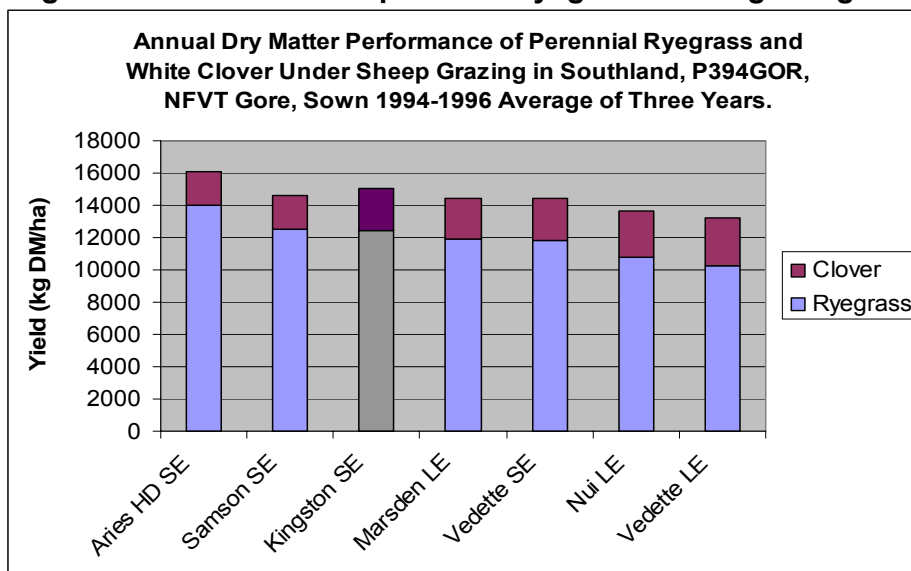
Entry	Autumn	Winter	Spring	Summer	Total
<i>AriesHD HE</i>	117	101	102	107	106
<i>Supreme Plus LE</i>	103	110	102	105	104
<b><i>Kingston LE</i></b>	<b>110</b>	<b>100</b>	<b>101</b>	<b>104</b>	<b>104</b>
<i>Samson LE</i>	108	98	102	102	103
<i>Impact LE</i>	100	86	104	101	100
<i>Bronsyn LE</i>	99	85	100	100	98
<b>Mean (kgDM/ha)</b>	<b>3667</b>	<b>1767</b>	<b>6683</b>	<b>5909</b>	<b>18026</b>

**Figure 2: Canterbury trials – total yield 2005**





**Figure 1: Performance of perennial ryegrass under grazing in Southland**



Trial results and farmer observations show **Kingston** has the ability to support valuable clover content, whilst still performing well as a dry matter producer.

## Key Features

- ✓ A versatile general-purpose ryegrass for sheep and beef
- ✓ Adapted to South Island conditions
- ✓ Densely tillered
- ✓ Strong early-spring production
- ✓ Ability to support valuable clover content
- ✓ Aluminium tolerance