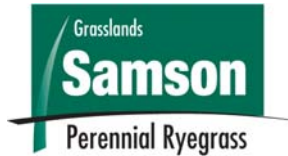


# Agrinote



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## Background

*Samson* is a medium tillered perennial ryegrass with rapid and vigorous establishment. *Samson* is a high yielding cultivar, especially through the summer months.

*Samson* was bred by AgResearch Grasslands from plants selected from Northland, Taranaki, Hawkes Bay, Waikato, Manawatu, Canterbury and Southland. *Samson* has excellent rust tolerance and reduced stem production in spring. *Samson* has been very successfully used on dairy, sheep and beef farms where farmers want strong and reliable pasture production.

*Samson* perennial ryegrass is now commercially available with *AR37* novel endophyte.

## Characteristics

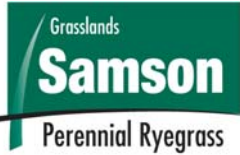
Perenniality	Leaf Size	1000 Seed Weight	Suggested Sowing Rate (kg/ha)
Perennial	Medium	2.4 grams	Pure sward 13-20

Rust Tolerance	Flowering Date	Chromosome No.	Endophyte Status
Very high	Medium	Diploid	AR1, standard or low endophyte

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## Key Features

- ✓ Available with **AR37** novel endophyte
- ✓ A leading ryegrass for total yield
- ✓ Good summer growth and quality
- ✓ Highly palatable with low stem production
- ✓ Proven in a range of environments
- ✓ Excellent disease tolerance

### **Crown Rust (*Puccinia coronata*) Resistance Scores (1999-2002) – P399RUA**

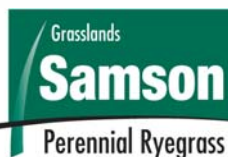
Scores are made on a visual basis of: 9=no rust, 1=severe rust

Entry	Mean of 3 Scores
<i>Samson</i>	5.2 A
Tolosa	4.9 ab
Embassy	4.7 ab
PG116	4.6 b
NZALP177	4.3 B
Cannon	3.7 C
NZALP156	3.4 cd
NZALP189	3.2 cd
Yatsyn 1	3.1 d
Significance	***
LSD 5%	0.6
CV%	9.8
Trial Mean	4

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## Production Data

*Samson* has proven its yield advantages in trial situations as well as in farmer evaluations. One of *Samson's* production advantages is high summer and autumn production. This, combined with high rust tolerance, leads to optimum animal performance.

### Northland

#### AgResearch – Kaikohe (1991-1994) Relative Seasonal Dry Matter Production

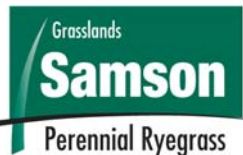
Cultivar	1991/92	1992/93	1993/94
<i>Samson</i>	119	115	132
Mean of controls (Nui, Yatsyn, Elliott)	110	100	100

100 = Trial mean 3 years

### Waikato

#### National Forage Variety Trial Ruakura 1993-1996 P293 RUA Relative Seasonal Dry Matter Production

Cultivar	Winter	Spring	Summer	Autumn	Total
<i>Samson</i>	104	109	114	114	110
Bronsyn	97	109	117	109	109
Yatsyn	112	112	117	105	108
Aries H.D.	100	103	100	108	103
Nui	102	101	88	91	97



## Canterbury (dryland)

**National Forage Variety Trial-Canterbury 1995-1998**  
**P295 PGG**  
**Relative Seasonal Dry Matter Production**

Cultivar	Winter	Spring	Summer	Autumn	Total
<i>Samson</i>	101	100	112	99	102
Bronsyn	103	101	98	101	100
Yatsyn	100	101	98	102	98

## Southland

**National Forage Variety Trial Gore 1994-1997**  
**P394 GOR**  
**Relative Seasonal Dry Matter Production**

Cultivar	Winter	Spring	Summer	Autumn	Total
<i>Samson</i>	98	99	100	104	100
<i>Greenstone</i>	96	98	99	100	99
Vedette	100	99	97	93	97
Yatsyn	96	100	100	100	99
Dobson	82	99	95	96	96

## Rust Tolerance

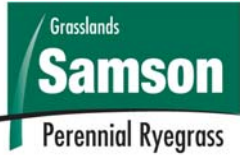
Several independent trials have been run which show the superiority of *Samson* for rust tolerance over other cultivars. High rust levels occur over summer in moist, warm conditions. Rust is a major issue for farmers from Taupo north and in certain locations throughout the rest of New Zealand. Ryegrass with rust is less palatable for stock.

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## Kaikohe

### Crown Rust Scores 1992 AgResearch

Cultivar	Rust Score
<i>Samson</i>	1.1
Mean of controls	5.7
Scores were made visually on the basis: 0 = No rust 9 = Very rusty	
Range of control varieties was 5.5 to 6.0	

## Waikato

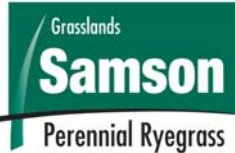
### Crown Rust Scores 1996 P293 RUA

Cultivar	Rust Score
<i>Samson</i>	8
Bronsyn	6
Banks	6
Aries H.D.	4
Yatsyn	3
Nui	2
Scores were made visually on the basis: 9 = No rust 0 = Very rusty	

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## Farmer Observations

- ✓ *Samson* is very rapid in the establishment phase. Seed growers with a range of varieties report that *Samson* establishes before other grasses.
- ✓ *Samson* will remain vegetative growth longer into a dry period and will regrow rapidly with autumn rain
- ✓ Stock preference to *Samson* is high
- ✓ *Samson* has a deep green colour year round

## Possible Pasture Mix Options

### 1. North Island Dairy/Beef/Sheep

Grasslands <i>Samson</i> AR1 perennial ryegrass	16-20 kg/ha
Grasslands <i>Tribute</i> white clover	4 kg/ha (bare)
Grasslands <i>Sensation</i> red clover	4 kg/ha (bare)

### 2. South Island Dairy/Beef

Grasslands <i>Samson</i> perennial ryegrass	14 kg/ha
Grasslands <i>Sterling</i> long rotation ryegrass	10 kg/ha
Grasslands <i>Tribute</i> white clover	4 kg/ha
Grasslands <i>Sensation</i> red clover	4 kg/ha

### 3. South Island Sheep

Grasslands <i>Samson</i> AR1 perennial ryegrass	12 kg/ha
Grasslands <i>Supreme<sup>PLUS</sup></i> AR1 long rotation ryegrass	8 kg/ha
Grasslands <i>Tribute</i> white clover	4 kg/ha
Grasslands <i>Sensation</i> red clover	4 kg/ha

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