

Cannon pasture systems

CANNON
PERENNIAL RYEGRASS



- Milking platform
- High performance general purpose
- Winter - spring finishing
- Sheep & Beef

Cannon pasture profile

Ryegrass type	Ploidy	Flowering	Seed count @1kg/ha	Sowing rate kg/ha	Endophyte	Season of sowing	Rust tolerance
Perennial	Diploid	1 day later than Nui	500,000	18-25	High Low AR1	Autumn	High

Recommended pasture mixes

1. **Milking platform** – CANNON with or without SAMSON perennial ryegrass, PRESTIGE white clover, WILL ladino white clover
2. **High performance general purpose** – CANNON, HORIZON ryegrass, PRESTIGE, WILL, COLENSO red clover, TONIC plantain
3. **Winter-spring finishing** – CANNON, GALAXY ryegrass, TONIC, PRESTIGE

Note: HORIZON = tetraploid, long rotation ryegrass, GALAXY = tetraploid, short rotation ryegrass, SAMSON = diploid perennial ryegrass, PRESTIGE = medium leaf white clover, WILL ladino = large leaf white clover, COLENSO = general purpose red clover, TONIC = mineral rich perennial grazing herb

Farmer testimonial



CANNON, along with the use of HORIZON, has captured the attention of Heywood dairy farmers, Rex and Lou Matthews.

CANNON is a responsive true perennial that jumps away with the first rains and shows rapid regrowth after grazing. It is well suited to dairy and beef grazing.

A perennial mix of CANNON, HORIZON, with PRESTIGE and WILL white clover and TONIC plantain is replacing the old sheep pastures.

As soon as you get a drop of rain CANNON and HORIZON are up and away and they are looking green all the way through, they tend to hold their colour and are always growing. The hot weather doesn't knock them out. Plantain also goes really well in this country — it grows like steam. Prime lamb farmers are able to top-off their lambs using TONIC with CANNON.

CANNON can be purchased from your local seed retailer

PGG Seeds Territory Managers
Dereck Ferguson North Island 0274 315 269
Charlie Roberts Northern SI 027 229 5776
David Geary Southern SI 0274 302 161
Head Office Christchurch 03 341 4380

www.pggseeds.com

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CANNON
PERENNIAL RYEGRASS

CANNON perennial ryegrass

The weapon
for mass grass
production



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CANNON^{CePes} PERENNIAL RYEGRASS

Perennial pastures are an important investment. By using Cannon you are investing in reliability and superior performance. Cannon is capable of returning big benefits to off-set the perceived costs of renewing a perennial pasture. High annual production, strong cool season growth, reliable performance in a range of sites and conditions, and the summer safe option of AR1 endophyte. Choose your feed weapon - choose Cannon!



? photo caption???

Invest in a *reliable* perennial ryegrass pasture

Key features

- **Strong year round performance**
- **Good autumn recovery**
- **Strong cool season growth**
- **Good rust resistance**

CANNON is a valuable year-round contributor to feed supplies, particularly during the cooler seasons of autumn, winter and early spring. This cool-season advantage over older varieties, like Nui, extends the shoulders of the traditional pasture growth curve. The spin-offs include extension of the milking season, greater potential to build winter pasture covers, and greater feed availability for early spring lambing and calving.

Perfect matching partner

A quality perennial ryegrass pasture will have a valuable clover and herb component. This improves the nutritional qualities of the feed, particularly during times when reproductive ryegrass is of lower quality. Diet variety is also important for animals.

Cannon is ideal when used as the sole ryegrass in a perennial mix. Alternatively, it mixes well with SAMSON perennial ryegrass, a persistent, rust tolerant type.

It is recommended that you sow Cannon with white clovers – a mix of small and larger leaved varieties is ideal. Herbs, TONIC plantain or chicory, can increase overall pasture production and they add a high mineral source to the diet. Red clover is another option. COLENSO red clover has good persistence in dry conditions, good summer production, and the ability to provide quality feed earlier in spring and later into autumn than many other red clovers.

Summer safe option

Cannon is available in standard high endophyte or with the AR1 endophyte. AR1 will provide some advantages to regions where perennial ryegrass dominates summer diets, and previous animal health issues, e.g. ryegrass staggers, have been experienced.

Strong cool season growth

CANNON is a valuable contributor to feed supplies, particularly during the cooler months of autumn, winter and early spring (see table). This trait can extend the shoulders of the traditional pasture growth curve, especially when sown in conjunction with a hybrid ryegrass (GALAXY short rotation or HORIZON long rotation ryegrass).



Improved growth can allow the extension of the milking season. Greater winter pasture covers can be achieved. Higher target pasture covers are possible for early spring lambing and calving.

Production and persistence

Cannon is one of the leading perennial ryegrasses for total annual production. And this production is consistently good year after year (as shown in table below).

Cultivar/Line	Total Year 1	Total Year 2	Total Year 3	3 Year total 2001-2003
Bronsyn	5330	6280	8000	19260 100
Impact	4580	6180	7870	18980 99
Vedette	5240	6410	6720	16800 87
Cannon	5520	6210	8040	20150 105
Kingston	5180	5490	8530	19770 103
C773	4700	6460	8450	18150 94
C774	5500	6100	7950	17890 93
C775	5460	5680	7380	17880 93
C776	4870	5300	8850	20040 104
C777	4880	5150	8090	18690 97
LSD (P=0.05)	1041	882	1232	1517
CV %	17.5	12.8	17.8	12.0

Annual performance of perennial ryegrass over 3 years (kgDM/ha), VICTAS Heywood, 2001-2003, Bronsyn=100.

Cultivar	Winter	Spring	Summer	Autumn	Total	Rust*
Fitzroy	3471	4613	3190	2650	13923 106	7.3 105
Supreme	3744	4688	2707	2339	13477 103	6.0 86
Cannon	3681	4168	3056	2505	13410 103	7.1 102
Samson	3618	4009	2956	2387	12973 99	7.3 105
Impact	3489	4146	2558	2058	12251 94	7.5 107
Dobson	3751	4313	2420	1973	12458 95	6.5 94
Trial mean	3626	4323	2815	2319	13082 100	7.0 100

Seasonal production (kgDM/ha) and rust incidence in perennial ryegrass, Queensland DPI Gatton, sown 2000.
*average of 7 scores, scored on 1-9 assessment, 9= no rust evident, 1=greater than 25% of surface damaged by rust.

Canterbury trials - total yield

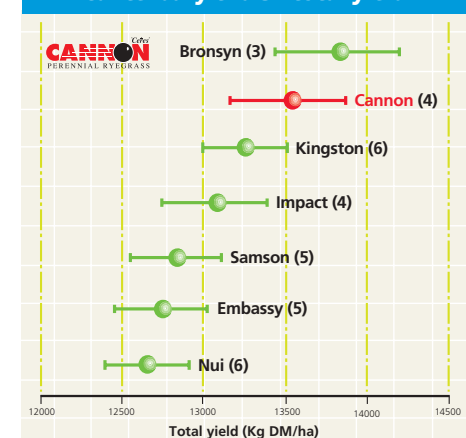


Figure 2. Annual dry matter performance of perennial ryegrasses in Canterbury.
National Forage Variety Trial summary for Canterbury, NZ 1991-2003.

Key:
● average yield
— Reliability bar (95% confidence interval).
Varieties with reliability bars that overlap are not statistically different.
Numbers in brackets indicate the number of trials that cultivar was entered in, and are presented in the summary.