

Ploidy

Diploid

Sowing Rate (kg/ha)

20

Heading Date

Late (+15)

Endophyte

LE



**AberDart LE**

Harry Koopmans Canterbury 6 year

## “Bred for increased animal production and persistence”

- Cattle and sheep are poor converters of grass protein into milk and meat. When grazing a standard ryegrass, livestock utilise only about 20% of protein from the forage for production – and the rest is degraded to rumen ammonia (refer table 2) and wasted in faeces and urine. This is not only financially costly, but also detrimental to the environment.
- Germinal Seeds High Sugar Grasses (HSG's) have been bred to contain higher levels of water-soluble carbohydrates (WSC) (refer table 1) which provide extra energy to microbes in the animals' rumen allowing the animal to digest and utilise more of the protein from forage for increased milk production and live weight gain.
- AberDart HSG has been bred for increased digestibility allowing increased dry matter intake – key for animal performance.
- AberDart HSG has been proven in some of New Zealand's harshest climatic conditions to be very persistent, due to its deep vigorous root system and dense tillering (refer to photo). Recently AberDart AR1 was ranked 1st equal for persistence when compared with 12 other AR1 cultivars in a three year trial conducted by On Farm Research in Hawke's Bay. AberDart's dense tillering also allows it to withstand pugging.
- AberDart HSG is suitable for all stock types under set stocking or rotational grazing. It has a low growing point allowing it to withstand hard grazing.

**Table 1. Energy/wsc - protein ratio (g/kg) – Mean of 12 spring measurements**

Tavendale et al, AgResearch – Grasslands Conference 2006 Vol. 68; Funded by Dairy InSight

	<b>AberDart HSG</b>	Impact
WSC	<b>235</b>	206
Protein (g/kg)	<b>188</b>	217

**Table 2. Rumen Ammonia Levels – Mean of 6 spring measurements**

Tavendale et al, AgResearch – Grasslands Conference 2006 Vol. 68; Funded by Dairy InSight

	<b>AberDart HSG</b>	Impact
Ammonia (ug/ml)	<b>176</b>	321

**Table 3. Dry Matter Yield Gore 2000-2003**

Cutting trial: All measurements and management by AgResearch

	Winter	Spring	Summer	Autumn	Total for Year
<b>AberDart HSG</b>	<b>88</b>	<b>108</b>	<b>111</b>	<b>118</b>	<b>110</b>
Bronsyn	95	98	94	99	96
Impact	105	102	106	101	103
Control Yield kg/ha DM	990	4,745	6,185	3,685	15,605