

# PROVIDING SUPERIOR PASTURE PERSISTENCE UNDER INSECT PEST ATTACK



Barrier is a specialist insect tolerant, and highly palatable, animal safe perennial variety for use where insect pests are a serious threat to the productivity and persistence of your pastures.

## BENEFITS

- ▶ Improved plant tolerance to top feeding and root feeding insects, including grass grub larvae, black beetle adults and larvae, porina caterpillar, black field cricket, root aphid, pasture mealybug and Argentine stem weevil
- ▶ Improved pasture persistence
- ▶ Safer for animals - Won't cause grass staggers or heat stress
- ▶ Highly palatable, with high voluntary intake
- ▶ High livestock performance potential

Containing the GrubOUT® U2 endophyte, Barrier has strong insect pest tolerance of a wide range of insect pests including grass grub larvae, black beetle adults and larvae, porina caterpillar, black field cricket, root aphid, pasture mealybug, Argentine stem weevil etc.

## IMPROVED TOLERANCE OF TOP & ROOT-FEEDING INSECTS



Black Beetle adults



Black Beetle larvae



Grass Grub larvae



Argentine Stem Weevil



Porina caterpillar



Black Field Cricket

### RESULTS OF INSECT COUNTS IN A 4 YEAR OLD ENDOPHYTE PERSISTENCE TRIAL, GORE (AUGUST, 2014)

	Extreme AR37	GrubOUT U2 line	Commando AR1	Matrix SE
Porina (No./m <sup>2</sup> )	30	9	28	32
Grass Grub larvae (No./m <sup>2</sup> )	301	90	360	396
Grass Grub larval weight (grams)	0.18	0.144	0.177	0.179



Cropmark Agronomist Richard Moate demonstrating the effect of the GrubOUT U2 endophyte (right) compared to another endophyte grass under grass grub and porina pressure, Mandeville trial site.