

Herbage Persistence Trials

DPI Hamilton 2002-04



Australian Seed Breeders

Hamilton - 2004 dry matter yield

Variety (endophyte %)	15.07.04	29.09.04	11.11.04	Total 2004	Total 2002-4
Bronsyn (76%)	1.38	2.00	2.18	5.55	19.18
Bronsyn (0%)	1.29	1.93	2.26	5.49	18.09
Vedette (4%)	1.09	1.77	2.12	4.97	17.33
Vedette (4%)	1.00	1.80	2.02	4.82	16.80
Boomer (0%)	0.74	2.67	1.42	4.83	17.48
Prolong (0%)	0.75	1.92	1.82	4.49	17.38
Avalon	1.32	1.57	2.18	5.07	17.42
lsd (P=0.05)	0.222	0.309	0.280	0.513	1.361
CV(%)	17.40	13.40	11.90	8.70	6.50
Significantly above					
Not significantly different					

- No difference between Bronsyn High and nil endophyte in the 3rd year - therefore no benefit from endophyte in that variety

- No difference between all nil or low endophyte varieties over the 3 year trial (Avalon is a high endophyte variety, although endophyte was not tested)

- Boomer produced significantly more herbage in late winter than all other varieties in the third year (Therefore no loss of productivity due to nil endophyte)

Heywood - 2004 dry matter yield

Variety (endophyte %)	08.07.04	10.09.04	12.10.04	22.12.04	Total 2004	Total 2002-4
Bronsyn (76%)	1.95	1.96	1.40	2.32	7.65	26.38
Bronsyn (0%)	1.97	1.67	1.31	2.21	7.15	24.28
Vedette (4%)	1.60	1.86	1.25	2.02	6.73	23.47
Vedette (4%)	1.68	1.54	1.41	2.16	6.79	23.58
Boomer (0%)	1.52	2.13	1.02	1.86	6.54	22.45
Prolong (0%)	1.83	1.68	1.42	2.04	6.97	23.29
Avalon	1.87	1.88	1.75	2.19	7.69	26.99
lsd (P=0.05)	0.533	0.405	0.282	0.611	1.036	1.597
CV(%)	25.80	18.80	17.70	24.90	12.50	5.60

Significantly different from

No significant difference

- No difference between Bronsyn High and nil endophyte in the 3rd year - therefore no benefit from endophyte in that variety

- Boomer produced significantly more herbage than 3 other varieties in the third year.

Both Trials:

- As there is only a significant difference over the total of 3 years.

- There is no significant difference in herbage persistence in the third year and therefore no benefit from having endophyte!!!