

Trial Name 2023 Bairnsdale Hybrid Ryegrass Trial
Site Location: Gippsland Agricultural Group, Bairnsdale Airport
Nearest Town: Bairnsdale
Site Operator: Valley Seeds – Casey Willis
Species: Hybrid Ryegrass
Trial Start and End: April 2023 - 10th October 2024
Report Date: 20th March 2026



Seasonal Summary/Comments

The trial was sown in late April with only low levels of soil moisture present. Establishment was slow due to low rainfall over winter and throughout early spring. Late spring and early summer 2023 rainfall saved the trial however it was put under pressure again with warm and dry conditions persisting until April 2023. Good rainfall across winter allowed regular harvesting of the trial however from October onwards conditions dried up.

Despite good rainfall in early 2025 the plots had suffered significant plant loss over the summer of 2024/25 and with some summer weeds starting to creep in the decision was made to terminate the trial after 2 years. Persistence results in June 2025 ranged between 0% and 48% survival.

Monthly Rainfall (mm)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2023	16.8	13.6	65.8	40.8	43.0	32.6	5.2	30.0	18.6	128.2	102.4	101.4	598.4
2024	50.6	28.2	27.8	65.4	138	86.8	66.8	31.8	60.8	28.6	39.0	30.0	529.6
2025	55.4	84.6	58.6	43.4	20.0	50.2	73.6	21.0	8.2	47.2	139.2	46.8	648.2

Rainfall data sourced from BOM – Bairnsdale airport.

Trial data on following page.

Results - kg DM/ha by harvest, annual and overall total.

2023 Bairnsdale Hybrid Ryegrass Trial

Sown: 20th April 2023

Final Harvest: 10th October 2024



Entry	Harvests										Persistence		Summary Totals		
	28-Sep-23	8-Nov-23	13-Dec-23	11-Jan-24	9-May-24	11-Jul-24	12-Aug-24	11-Sep-24	10-Oct-24	24-Jan-24	3-Jun-25	Year 1	Year 2	Overall	
Frenzy LE	1404 ^a	3250 ^{cd}	1899 ^a	1785 ^{ab}	680 ^c	1334 ^b	1642 ^a	2174	2575 ^b	88% ^b	14% ^b	8371 ^{ab}	8254 ^c	16407 ^c	
Hypa	965 ^b	4252 ^a	1441 ^b	1722 ^{ab}	445 ^d	787 ^c	1366 ^b	2407	3159 ^a	94% ^{ab}	13% ^b	8491 ^{ab}	8305 ^c	16629 ^{bc}	
Mohaka AR37	945 ^b	3295 ^{bd}	1830 ^{ab}	1940 ^a	1033 ^{ab}	1643 ^a	1814 ^a	2257	3120 ^a	97% ^a	48% ^a	8008 ^{bc}	9786 ^{ab}	17923 ^{ab}	
Shogun NEA	1135 ^{ab}	3795 ^{ac}	1777 ^{ab}	2050 ^a	891 ^b	1401 ^b	1683 ^a	2775	2619 ^b	92% ^{ab}	10% ^{bc}	8830 ^a	9366 ^b	18088 ^a	
Greenmount CM142	988 ^b	2903 ^d	2012 ^a	1935 ^a	1099 ^a	1757 ^a	1790 ^a	2750	2939 ^{ab}	95% ^{ab}	42% ^a	7541 ^c	10392 ^a	18053 ^a	
Tonnus	1025 ^b	3943 ^{ab}	1633 ^{ab}	1545 ^b	254 ^e	475 ^d	1159 ^b	2291	2620 ^b	79% ^c	0% ^c	7944 ^{bc}	6638 ^d	14925 ^d	
Trial mean	1018	3718	1710	1776	617	1040	1513	2460	2846	92%	15%	8226	8484	16733	
Significance	0.008	0.002	0.038	0.049	0.000	0.000	0.000	NS	0.009	0.002	0.000	0.005	0.000	0.000	
LSD (5%)	344	643	417	339	171	246	274	578	392	8%	12%	654	769	1358	
%CV	22.8	11.7	16.8	13.2	19.1	16.0	12.3	16.2	9.3	5.7	54.5	5.3	6.2	5.6	

Harvest method: whole plot harvested, sub samples taken from each plot for DM% determination.

Results with overlapping letter ranges are not significantly different from each other

Total Yields are calculated statistically using the whole dataset and may not precisely equal the sum of individual harvests or seasons.