

Trial Name 2022 Meredith Hybrid Ryegrass Trial
Site Location: Pasturewise Research Farm
Nearest Town: Meredith
Site Operator: Pasturewise Pty Ltd (Stuart Kemp)
Species: Hybrid Ryegrass
Trial Start and End: 03/05/2022 – 1/07/2025
Report Date: 20/03/2026



Seasonal Summary/Comments

It was an excellent start to the season with good winter and early spring growing conditions. It became exceptionally wet in late spring with a total of 375mm falling (October-November which made timely harvests in late spring very difficult. Total rainfall for 2022 was very much above the long-term average (~680mm), primarily driven by October and November.

A very wet 2022 was followed by good start to 2023 with good moisture for the first half of the year. Late winter and early spring of 2023 was quite dry, however more regular rainfall in October and November gave an excellent finish for late spring. High rainfall in December of 137mm finished off 2023.

In 2024 January saw a continuation of the high rainfall from December however that is where the good news stopped for that year with only 2 other months for that year (April and September) approaching the long-term averages and all other months being below average. 2024 was in the top 5 driest years on record (~150 years of records) for the region. The dry conditions across the year reduced pasture growth and meant that the trial was under stress going into summer of 2024/25.

Rainfall across the first half of 2025 was low and although there was 68mm of rain in February, conditions were warm and too early for an autumn break. Conditions stayed dry until June 2025 with no significant autumn rainfall to kick the year off. Persistence was recorded at the start of July once the plants had had an opportunity to green up although growth was still low at that point due to the cool conditions. Survival ranged from 1% to 56%.

Monthly Rainfall (mm)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2022	110.1	3.6	57.4	76.0	49.4	66.6	32.6	62.8	71.0	241.6	134.2	67.2	972.4
2023	25.8	45.6	52.6	74.8	54.0	62.0	25.8	42.4	22.8	59.4	69.8	137.0	672.1
2024	79.4	1.8	3.0	60.0	14.0	20.2	29.0	31.4	70.8	47.2	48.4	8.8	444.2
2025	26.8	68.0	29.8	29.0	16.8	86.3	34.8	60.4	35.7	73.2	111.4	27.4	599.7

Rainfall data sourced from on-site weather station, Pasturewise, Meredith.

Trial data is included on the next page.

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



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Sown: 3rd May 2022

Final Harvest: 7th November 2024

	Harvests											Totals				Persistence
	7-Sep-22	4-Oct-22	2-Dec-22	10-Feb-23	20-Jun-23	23-Aug-23	20-Oct-23	8-Feb-24	12-Sep-24	7-Nov-24	Year 1	Year 2	Year 3	All	30-Jun-25	
Frenzy	2410 ^a	2085	4352 ^c	2656 ^{ab}	1641	1133 ^b	4712 ^a	2472 ^a	1071 ^a	1073 ^{cd}	11433 ^{ab}	10196 ^a	2091 ^a	23661 ^a	8% ^{ef}	
Shogun NEA	2030 ^b	2337	4836 ^{bc}	2916 ^a	1348	1361 ^a	3956 ^b	2400 ^a	1086 ^a	1258 ^{bc}	12156 ^a	8971 ^b	2348 ^a	23481 ^a	5% ^f	
Hypa	1387 ^e	2253	5719 ^a	2073 ^c	1738	744 ^{de}	3702 ^b	1864 ^b	734 ^b	1755 ^a	11639 ^a	8084 ^{bc}	2411 ^a	21987 ^b	25% ^{cd}	
Greenmount CM142	1660 ^{cd}	2242	5107 ^{ab}	2411 ^{bc}	1962	894 ^{cd}	3831 ^b	1668 ^b	750 ^b	1463 ^b	11568 ^a	8306 ^{bc}	2124 ^a	21762 ^b	41% ^b	
Mohaka AR37	1548 ^{de}	2104	5170 ^{ab}	1973 ^{cd}	1480	1095 ^{bc}	3671 ^b	1537 ^b	1049 ^a	1299 ^{bc}	10692 ^{bc}	7490 ^c	2398 ^a	20635 ^{bc}	35% ^{bc}	
Tonnus	1831 ^{bc}	2330	4615 ^{bc}	1589 ^{de}	1575	812 ^d	3852 ^b	1558 ^b	590 ^{bc}	1357 ^{bc}	10320 ^c	8018 ^{bc}	2042 ^a	20354 ^c	1% ^f	
Barberia	1797 ^c	2460	4416 ^c	695 ^f	1604	937 ^{bd}	3992 ^b	771 ^c	734 ^b	1776 ^a	9223 ^d	7284 ^c	2445 ^a	18946 ^d	18% ^{de}	
Catina SE #	1156 ^f	1871	5131 ^{ab}	1149 ^e	1962	588 ^e	3416 ^b	1094 ^c	391 ^c	875 ^d	9279 ^d	7356 ^c	1278 ^b	17948 ^d	56% ^a	
Trial mean	1671	2169	4887	1999	1693	914	4053	1698	762	1446	10725	8356	2179	21249	18%	
Significance	0.000	NS	0.007	0.000	NS	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
LSD (5%)	208	425	658	449	805	204	701	421	222	299	811	1059	412	1403	11%	
%CV	8.6	13.6	9.4	15.6	33.1	15.2	12.0	17.2	20.2	14.0	5.2	8.7	13.1	4.5	43.7	

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.

Catina SE is more correctly described as a perennial however at the time of entry this was not known.