

Trial Name 2022 Meredith Phalaris Trial
Site Location: Pasturewise Research Farm
Nearest Town: Meredith
Site Operator: Pasturewise Pty Ltd (Stuart Kemp)
Species: Phalaris
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 82% to 89% and was not significantly different between cultivars.**

Also note that due to operator injury and unavailability at the end of 2023, there was a delay in harvest to February 2024 which contributed to the excessively high harvest yield and not significant result at that time period.

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.

2022 Meredith Phalaris Trial

Sown: 3rd May 2022

Final Harvest: 4th July 2025



Entry	Harvest Yields										Summary Totals				Persistence
	21-Oct-22	21-Dec-22	11-Jul-23	18-Sep-23	6-Feb-24	3-Sep-24	7-Nov-24	4-Jul-25	Year 1	Year 2	Year 3	All Years	4-Jul-25		
Amplify	2394 ^{ab}	4081 ^{cd}	2305 ^{ab}	2040 ^a	7318	3011 ^a	2260 ^{cd}	519 ^a	6782 ^{ac}	11740 ^a	5468 ^a	24313 ^a	87.2%		
SF Mate	2763 ^a	4214 ^{bd}	2422 ^a	1904 ^{ab}	6624	2410 ^{bc}	2623 ^{bc}	498 ^{ab}	6865 ^{ab}	10654 ^{ab}	5445 ^{ac}	22856 ^{ab}	84.4%		
Holdfast GT	2573 ^{ab}	4467 ^b	2247 ^{ab}	1475 ^c	6628	2125 ^{cd}	2392 ^{bc}	446 ^{ac}	7050 ^a	10664 ^{ab}	5171 ^{ad}	22782 ^{ab}	88.8%		
Advanced AT	2634 ^{ab}	3894 ^d	2411 ^a	1571 ^{bc}	6601	2832 ^{ab}	1900 ^d	583 ^a	6568 ^{ac}	10696 ^{ab}	5330 ^{ac}	22506 ^b	84.1%		
Confederate	2234 ^{bc}	3987 ^d	2154 ^{ac}	1794 ^{ac}	6281	2504 ^{bc}	2258 ^{cd}	496 ^{ab}	6218 ^{cd}	10083 ^{bc}	5455 ^{ab}	21661 ^{bc}	81.9%		
Stockman	1884 ^c	4473 ^b	1740 ^{bd}	1734 ^{ac}	6829	1890 ^{de}	2766 ^{ab}	309 ^{cd}	6195 ^{cd}	10140 ^{bc}	4881 ^{ae}	21175 ^{bc}	88.1%		
Australian II (PW)	1367 ^d	4401 ^{bc}	1545 ^{cd}	1550 ^c	6755	1590 ^{ef}	2806 ^{ab}	322 ^{bc}	5739 ^d	10088 ^{bc}	4708 ^{de}	20676 ^c	87.2%		
Australian	1124 ^d	5118 ^a	1297 ^d	1809 ^{ac}	6123	1145 ^f	3165 ^a	136 ^d	6326 ^{bc}	9142 ^c	4331 ^e	19980 ^c	87.5%		
Trial mean	2222	4270	2095	1661	6605	2275	2470	416	6490	10361	5117	22012	86.5%		
Significance	0.000	0.000	0.005	0.002	NS	0.000	0.000	0.001	0.002	NS	0.003	0.002	NS		
LSD (5%)	465	384	644	352	1010	505	440	180	584	1286	563	1761	5.7%		
%CV	14.2	6.2	21.2	14.6	10.5	15.3	12.3	29.7	6.2	8.4	7.4	5.4	4.6		

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.