

Nyngan Early Sown Wheat Variety Trial

Introduction

This variety trial was sown on 23 April 2008 with 18 comparatively slow maturing wheat varieties in plots, 12m*1.5m and replicated three times. Seed was sown at 50 kg/ha with 6.6 N kg/ha & 14.5 P kg/ha as MAP. Adequate weed control was achieved with an application of diclofop-methyl and MCPA LVE post emergence. A well managed long fallow period prior to seeding provided good subsoil moisture.

Results

| Variety | Yield (t/ha) | No | Protein (%) | No | Screenings (%) | No | Test Weight (kg/hL) | No |
|-------------|--------------|----|-------------|----|----------------|----|---------------------|----|
| HORNET | 2.61 | 1 | 13.28 | 15 | 9.34 | 5 | 78.17 | 10 |
| STRZELECKI | 2.51 | 2 | 14.19 | 5 | 8.24 | 7 | 78.33 | 9 |
| MERINDA | 2.47 | 3 | 13.33 | 14 | 10.24 | 4 | 77.83 | 12 |
| DAKOTA | 2.42 | 4 | 12.89 | 17 | 9.21 | 6 | 77.50 | 13 |
| CARINYA | 2.42 | 5 | 13.39 | 12 | 5.60 | 17 | 79.33 | 3 |
| CORRELL | 2.38 | 6 | 13.65 | 10 | 10.87 | 3 | 73.67 | 17 |
| SENTINEL | 2.33 | 7 | 14.04 | 7 | 5.89 | 15 | 78.67 | 7 |
| BOLAC | 2.22 | 8 | 14.93 | 3 | 6.98 | 12 | 77.17 | 15 |
| GILES | 2.19 | 9 | 12.89 | 18 | 7.65 | 10 | 78.50 | 8 |
| SUNZELL | 2.18 | 10 | 13.47 | 11 | 8.03 | 8 | 79.00 | 4 |
| EGA_BOUNTY | 2.14 | 11 | 13.37 | 13 | 5.81 | 16 | 80.17 | 2 |
| SUN434D | 2.09 | 12 | 14.63 | 4 | 6.89 | 13 | 77.33 | 14 |
| EGA_GREGORY | 2.07 | 13 | 13.16 | 16 | 7.43 | 11 | 78.83 | 5 |
| SUNVALE | 2.04 | 14 | 14.00 | 8 | 5.14 | 18 | 81.33 | 1 |
| EGA_WILLS | 1.99 | 15 | 13.76 | 9 | 6.78 | 14 | 78.83 | 6 |
| NAPAROO | 1.92 | 16 | 15.49 | 1 | 11.56 | 2 | 72.33 | 18 |
| ELLISON | 1.86 | 17 | 14.98 | 2 | 11.90 | 1 | 77.83 | 11 |
| GLADIUS | 1.69 | 18 | 14.04 | 6 | 7.96 | 9 | 76.83 | 16 |
| | | | LSD = 1.13 | | LSD = 2.14 | | LSD = 2.86 | |
| | P = 0.07 | | P = 0.001 | | P <0.001 | | P <0.001 | |
| | NSS | | Significant | | Significant | | Significant | |

NSS = Not statistically significant **Significant** = statistically significant

*Varieties that vary by less than the LSD are not statistically different.

*Many factors affect the relative performance of varieties in a trial. Varietal decisions should therefore not be based solely on a varieties performance in a limited number of trials.

Comments

Unfortunately in contrast to quality measurements grain yield results were not statistically significant. Caution should be taken when assessing the performance of faster maturing varieties like Ellison in an early sown trial situation like this. Ellison yielded 0.48 t/ha less in this trial than in the main season trial which was sown on 5 June. Although no data was collected the comparatively high protein and screenings in Ellison in this trial may indicate possible frosting or possibly inadequate soil moisture during the grain-filling period due to excessive early growth.