

14 Durum Weed Control Best Practice Trial

The aim of the 2014 durum agronomy trials is to represent the data taken from previous year's trials to create a scenario comparing the best practice to an average practice in terms of weed control in durum wheat. These trials are to be conducted at 4 sites including Bordertown, Turretfield, the Hart field day site and the Mid-North High rainfall site at Tarlee. The best practice treatment includes using boxer gold as the pre emergence chemical compared to a weaker chemical in Treflan, using a more competitive variety in Saintly compared to a less competitive variety such as Yawa, low seeding rates of 150 seeds/m² opposed to high rates of 250 seeds/m², as well as large grain size compared to smaller grain size. These can be more clearly seen in the table below. All treatments are also compared with plus and minus ryegrass which has been sown into the crop in selected plots.

The trial at hart also has some addition treatments which carry on from last year's trial. This involves comparing UAD0951096 300 to mace with several different agronomic practices such as the use of spreader boots, seeding rate and smaller row spacing compared to standard practice. This can be seen in table 2.

Table 1: Treatments for the durum agronomy trials based at Tarlee, Bordertown, Turretfield and Hart.

Treatment	Pre-emergent Chemical	Variety	Seeding Rate	Seed Size
1	Treflan	Yawa	150 seeds/m ²	Small Seeded Grain (<2.5mm)
2	Boxer Gold	Saintly	250 seeds/m ²	Large Seeded Grain (graded over 2.5mm sieve)
3	Treflan	Saintly	250 seeds/m ²	Large Seeded Grain (graded over 2.5mm sieve)
4	Boxer Gold	Yawa	250 seeds/m ²	Large Seeded Grain (graded over 2.5mm sieve)
5	Boxer Gold	Saintly	150 seeds/m ²	Large Seeded Grain (graded over 2.5mm sieve)
6	Boxer Gold	Saintly	250 seeds/m ²	Small Seeded Grain (<2.5mm)

Table 2: Treatments for the Hart field day site. Note that all treatments also have a plus and minus weed treatment with ryegrass spread at 10kg/ha.

1	Standard Mace 100
2	Spreader Boot 100 Mace
3	Standard Mace 200
4	Standard UAD0951096 100
5	Spreader Boot 200 Mace
6	Spreader Boot 300 Mace
7	4.5 inch row spacing Mace
8	Spreader Boot 100 UAD0951096
9	Standard UAD0951096 300
10	Standard Mace 300
11	Spreader Boot 200 UAD0951096
12	Spreader Boot 300 UAD0951096
13	4.5 inch row spacing UAD0951096
14	Standard UAD0951096 200