

Comparison of oat varieties

Key findings

- The grain varieties Dunnart (2.28t/ha) and Possum (2.17t/ha) were the highest yielding oat varieties at Hart in 2012

Why do the trial?

To compare the grain yield performance of new oat varieties and lines against the current industry standards.

How was it done?

Plot size	1.4m x 10m	Fertiliser	DAP Zn 2% @ 80kg/ha UAN @ 80L/ha, 24 th July
Seeding date	13 th June 2012		

The trial was a randomised complete block design with 3 replicates and 20 varieties.

Variety	Grain Yield (t/ha)	% of Wallaroo
Wallaroo	1.81	100
Brusher	1.95	108
Mulgara	1.96	109
Wintaroo	1.66	92
Kangaroo	1.15	64
Tungoo	1.18	65
Tammar	1.03	57
Forester	1.88	104
Kojonup	1.90	105
Yallara	2.05	113
Mitika	2.14	118
Dunnart	2.28	126
Possum	2.17	120
Potoroo	1.99	110
Echidna	2.11	116
Bannister	2.16	119
Euro	2.02	111
Wombat	1.95	108
03142-62	2.09	116
WAOAT2332	2.10	116
Site mean	1.88	104
LSD (0.05)	0.3	17

Results

The grain varieties Dunnart (2.28t/ha) and Possum (2.17t/ha) were the highest yielding oat varieties at Hart in 2012 (Table 1). The hay varieties Tammar (1.03t/ha), Kangaroo (1.15t/ha) and Tungoo (1.18t/ha) were the lowest yielding varieties.

The average yield of hay varieties (1.58 t/ha) was predictably lower compared to the average yield of grain varieties (2.08 t/ha).

Table 1. Grain yield (t/ha) for oat varieties at Hart in 2012.