

Comparison of oat varieties

Key findings

- The grain variety Echidna and numbered varieties WAOAT2354 and WAOAT2332 were the highest grain yielding oat varieties, averaging 3.53 t/ha.
- The average grain yield for hay varieties (2.27 t/ha) was significantly lower compared with the average yields for grain varieties (3.13 t/ha).

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% @ 90 kg/ha
UAN @ 70 L/ha, 29th July

Seeding date 30th May 2011

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

Plot edge rows were removed prior to harvest.

Results

The grain variety Echidna (3.56 t/ha) and two numbered lines – WAOAT2332 (3.46 t/ha) and WAOAT2354 (3.58 t/ha) were the highest yielding oat varieties at Hart in 2011 (Table 1).

The average yield of hay varieties (2.27 t/ha) was predictably lower compared to average yield of grain varieties (3.13 t/ha).

Variety	Grain Yield (t/ha)	% of Wallaroo
03142-62	3.32	136
Brusher	2.21	90
Echidna	3.56	145
Euro	3.14	128
Kangaroo	2.26	92
Kojonup	3.01	123
Mitika	3.31	135
Mulgara	2.24	91
Possum	3.28	134
Potoroo	3.28	134
SV97181-1	3.37	138
SV97200-3	2.92	119
SV98146-2	3.07	125
Tammar	2.41	98
Tungoo	2.28	93
Wallaroo	2.45	100
WAOAT23	3.46	141
WAOAT235	3.58	146
Wintaroo	2.25	92
Yallara	3.04	124
Site mean	2.92	119
LSD (0.05)	0.16	7

Table 1. Grain yield (t/ha) for oat varieties at Hart in 2011.