# 2.9 Oat Variety Trial

Researchers

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To evaluate the suitability of different grain oat varieties for the high rainfall zone.

# Method

Sown on the 16/99 at 80 kg/ha of seed and 100 kg/ha of DAP.

## **VARIETY INFORMATION**

### Coomallo

Tall milling variety released from WA. Its physical quality is inferior to Euro.

## Echidna

Probably the most common oat in the South West. A high yielding dwarf variety that is resistant to lodging and shattering. It has a smaller grain size than Euro but is still considered for acceptable for milling.

### Eurabbie

A newly released NSW variety that has performed well as a Hay line as well as a high yielding grain line.

#### Euro

A premium quality milling oat derived from a cross between Mortlake and Echidna. A short variety (not a semi-dwarf) that on average yields 89% of Echidna. It has better straw strength than other non-dwarf varieties. Moderately resistant to BYDV but susceptible to stem and leaf rust.

### Hotham

An early maturing intermediate tall milling variety from WA. Its hectolitre weight is similar to Euro but it has 2.5% higher screenings. Very susceptible to stem rust.

# Wandering (WAOAT 2052)

A newly released dwarf line from WA.

### Mortlock

A very high protein oat but yields 10% less than Euro. Susceptible to leaf rust and moderately susceptible to stem rust and BYDV.

# Needilup

Formerly WAOAT2014. It is a late maturing dwarf oat from WA with superior grain quality to Echidna. Its yield performance has been poor in Victoria and it is susceptible to stem and leaf rust.

### Numbat

A naked oat variety developed in SA. It has a 5% higher yield than Bandicoot (the other commercial naked oat) but is about 75% lower than Echidna.

#### Potoroo

A dwarf oat that is high yielding and is highly digestible and is thus suitable for animal feed. It is slightly lower yielding than Echidna although its digestibility is better.

### Quoll

A new dwarf variety with similar yields to Echidna but higher protein. Resistant to stem and leaf rust and moderately resistant to septoria. Tolerant to BYDV.

# **Toodyay**

A tall milling variety from WA. Its grain yield and quality is slightly inferior to Euro. Susceptible to stem rust.

			RES	
STREATHAM GRAIN OAT TRIAL				
VARIETY	Average Yield T/Ha	% site mean	% Echidna	
HOTHAM	4.82	131	110	
ECHIDNA	4.40	119	100	
QUOLL	4.32	117	98	
SV91108-3	4.27	116	97	
EURRABIE	4.17	113	95	
NEEDILUP	4.12	112	94	
SV92040-54	4.01	109	91	
SV91139-27	3.99	108	91	
POTOROO	3.75	102	85	
SV91139-20	3.71	101	84	
TOODYAY	3.64	99	83	
SV92070-86	3.55	96	81	
NUMBAT	3.40	92	77	
EURO	3.39	92	77	
WAOAT 2052	3.19	86	73	
COOMALLO	3.13	85	71	
SV92070-94	3.13	85	71	
SV91024-7	3.09	84	70	
MORTLOCK	2.93	79	67	
SV87073-10-14	2.83	77	64	
Average	3.69			
LSD T/Ha	1.37			

STREATHAM HAY TRIAL. HARVESTED - 7/1/00.				
VARIETY	Average	% site mean	% Echidna	
ECHIDNA	3.66	141	100	
EURRABIE	3.11	119	85	
WALLAROO	2.92	112	80	
GLIDER	2.68	103	73	
MARLOO	2.54	98	69	
OX92;093- 85CRH	2.51	97	69	
SV88083-4	2.39	92	65	
OX93;033-21	2.36	91	64	
OX93;072-43	2.34	90	64	
SWAN	2.32	89	63	
SV87103-109	2.31	89	63	
BETTONG	2.08	80	57	
Site Mean	2.60			
LSD T/Ha	1.33			