

Canola Variety Demonstration - Sea Lake and Birchip

The aim of this trial was to compare established and new canola varieties for yield and oil

METHOD

Conventional, Triazine tolerant (TT) and Imidazolinone tolerant (IT) varieties were sown between the 11th and 18th of May at both sites. Crops were sown with Mallee Mix 1 and the area was predrilled with urea. Gypsum had been applied in 1999 to Birchip site but no gypsum had been applied to Sea Lake. Sea Lake was topdressed with Ammonium sulphate on 21st August for sulphur deficiency. Some varieties did not have replicates due to a spraying miss, so some results are the average of 3 plots and some are only from 1 plot.

At Sea Lake canola showed signs of Sulphur deficiency (purple leaves) in the early growth stage and the plots were topdressed with Ammonium Sulphate on one half and Urea on the other half to prove that it was a sulphur deficiency (both with 30kg N). The plots topdressed with Ammonium Sulphate yielded 0.3 t/ha more than those with urea only. The Sea Lake results are those with Ammonium Sulphate topdressed.

RESULTS

Variety	Birchip		Sea Lake	
	Yld t/ha	Oil %	Yld t/ha	Oil %
Conventional early				
Outback (AGA 99-04)	1.20	42.6	1.39	44.4
Emblem	1.30	43.4	1.23	45.0
Georgie	1.25	43.9	1.23	47.0
Monty	1.27	42.9	-	-
Mystic	1.29	43.4	0.8	45.4
PacN 162	0.96	43.9	1.15	43.5
RM 12	1.17	43.2	1.44	47.3
RN 02	1.35	44.2	1.44	48.1
Surpass 400	0.85	44.1	1.19	49.0
mid				
46C03	0.97	42.2	-	-
AGA 99-13	1.16	47.2	-	-
AGA 99-14	0.92	47.5	-	-
Charlton	0.87	44.8	-	-
Dunkeld	1.04	44.6	-	-
Grouse	1.20	44.3	-	-
Insignia	1.11	46.8	-	-
Oscar	0.78	40.7	-	-
PacN 168	0.73	43.6	-	-
Purler	0.75	45.2	-	-
Rainbow	1.01	44.4	1.20	43.9
Ripper	1.04	45.7	-	-
RM 27	1.04	44.2	-	-
RN 15	0.94	43.7	-	-
Surpass 600	1.20	46.7	-	-
Trooper	0.68	43.1	-	-

Variety	Birchip		Sea Lake	
	Yield t/ha	Oil %	Yield t/ha	Oil %
Triazine Tolerant TT early				
Karoo	1.37	40.8	1.95	40.6
PacN 147	1.25	43.6	1.07	43.0
mid				
Hyden (AGA 99-27)	1.04	41.17	-	-
Clancy	0.72	40.0	-	-
Drum	0.56	39.6	-	-
Pinnacle	0.77	42.0	-	-
Surpass 600 TT	0.64	44.1	-	-
Grace (TM 4)	0.70	42.7	-	-
Imi Tolerant IT early				
44C71	1.36	47.8	1.56	45.0
PacN 176	1.22	48.0	1.49	45.2
mid				
46C72	0.68	44.7	-	-
PacN 178	0.56	44.4	-	-