3. OILSEED VARIETY TRIALS

3.1 Triazine Resistant Canola Variety Trial

Researchers

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Aims

To evaluate a number of breeder's lines with commercial varieties to determine the most suitable triazine tolerant lines for the high rainfall zone in the south west.

Method

Sown on the 2/6/99 at 8 kg/ha of seed with 100 kg/ha of DAP.

VARIETY INFORMATION

Bugle (AGA 99-22)

A new medium – early TT variety suited to the medium to low rainfall zones. It has higher oil and better blackleg resistance than Karoo. More suited to later plantings in the high rainfall zone.

Clancy

A mid season triazine herbicide resistant variety with excellent blackleg resistance. Its oil content is poor however. Its maturity is similar to Pinnacle (and Oscar) and is suited for normal sowings throughout the South West.

Drum

An early season triazine resistant canola variety with only moderate blackleg resistance. It is comparable with Karoo although it does have 1-2 % lower oil content than Karoo.

Karoo

A high yielding early season triazine line. It has moderate blackleg resistance and is suited to later sowings.

Pinnacle

A high yielding triazine variety. It has excellent blackleg resistance and the highest oil content of any commercially available triazine resistant varieties. It is suited to normal sowings in the South West.

Surpass 600TT

A mid maturity TT canola with a high oil content and excellent blackleg resistance.

TM5

A mid maturing variety with a similar maturity to Oscar. It has good levels of blackleg resistance and improved yield and oil content compared with Drum and Clancy.

TM8

A medium to early maturing variety similar to rainbow. It is suited to the low to mid rainfall areas of southern Australia.

YIELD RESULTS

Variety	Ham	Ham	Ham	LB	LB	LB	Str	Str	Str
	T/Ha	% mean	% Pin	T/ha	% mean	% Pin	T/Ha	% mean	% Pin
AGA99.21	2.73	114	99	1.80	94	98			
AGA99.22	2.54	106	92	1.38	72	75	2.29	101	94
AGA99.23	2.83	118	102	1.84	96	100			
AGA99.24	2.92	122	105	2.11	110	114			
AGA99.25	2.40	100	87	2.54	133	138			
AGA99.26	2.90	121	105	2.26	118	123			
AGA99.27	3.12	130	113	2.27	119	123			
AGA99.28	3.02	126	109	2.45	128	133			
AGA99.29	2.54	106	92	2.30	121	125			
CLANCY	2.78	116	101	1.86	97	101	2.29	100	94
DRUM	2.95	123	107	1.89	99	102	2.52	110	103
KAROO	1.88	78	68	1.11	58	60	2.05	90	84
PACN164	1.39	58	50	1.13	59	61	1.95	86	80
PACN165	1.88	78	68	0.97	50	52	1.95	86	80
PINNACLE	2.77	115	100	1.84	96	100	2.43	107	100
SURPASS_600TT	2.53	105	91	1.58	83	86	2.34	102	96
TL05	1.59	66	57	2.21	116	120	2.42	106	100
TM04	1.88	78	68	1.66	87	90	2.77	121	114
TM05	1.98	82	72	1.85	97	100	1.98	87	81
TM08	0.48	20	17	1.79	94	97	1.51	66	62
TN01	2.70	113	98	2.57	135	139	2.46	108	101
TN02	1.61	67	58	1.46	77	79	1.83	80	75
TN03	2.38	99	86	2.08	109	113			
TN04	2.51	104	91	1.90	100	103	2.64	116	109
TN05	2.43	101	88	2.25	118	122	2.54	111	104
TN06	2.78	116	101	2.17	114	118	2.42	106	99
TN07	3.01	126	109	2.23	117	121	2.66	117	109
TN08	2.42	101	88	1.77	92	96	2.28	100	94
mean: (t/ha)	**2.39**			**1.90**			**2.28**		
CV	**12.40**			**13.70**			**14.10**		
LSD: (t/ha)	**0.50**			**0.44**			**0.56**		

YIELD AVERAGED OVER HAMILTON, STREATHAM AND LAKE BOLAC SITES

Variety	Yield T/Ha	%Pinnacle	%site mean
TN07	2.63	112	126
TN01	2.58	110	123
TN06	2.46	105	118
DRUM	2.45	104	117
TN05	2.40	102	115
TN04	2.35	100	113
PINNACLE	2.35	100	112
CLANCY	2.31	98	111
TN08	2.15	92	103
SURPASS 600TT	2.15	92	103

Variety	Yield T/Ha	%Pinnacle	%site mean
TM04	2.10	90	101
AGA99.22	2.07	88	99
TL05	2.07	88	99
TM05	1.94	83	93
KAROO	1.68	72	80
TN02	1.63	70	78
PACN165	1.60	68	77
PACN164	1.49	63	71
TM08	1.26	54	60
Site Mean	**2.09**		