

3.5.10 TRITICALE VARIETY TRIALS (TASMANIA)

Location: Symmons Plains, Riccarton
(Campbell Town)

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Growing season rainfall (April-Nov):

Symmons Plains 378mm
Riccarton 265mm

Background:

With the release of new varieties, greater awareness of potential yields and improved management practices, there has been a large increase in the area sown to wheat and triticale in Tasmania. Triticale plantings have increased due to awareness of tolerance to waterlogging, better leaf disease resistance and greater tolerance to acid soils compared with wheat.

Aim:

To further compare existing triticale varieties and evaluate new breeding material.

Results and Discussion:

Results are presented in the Table 55. Due to limited resources only a small number of triticale varieties were evaluated. Wheat variety testing is a greater priority at Symmons Plains and barley at Campbell Town.

There were no statistical differences between yields of triticale varieties at either site ie. Tahara still managed to yield as well as the newer varieties.

Treatments:

Main entries and their origin are listed below:

Tahara	Vic
Treat, Tickit, Tx94-98	SA
Muir	WA
W19, W47, AT509, Everest	NSW

Sowing date:

Symmons Plains:	25 May 2002
Riccarton:	18 June 2002

Harvest date:

Symmons Plains:	23 January 2003
Riccarton:	13 January 2003

Fertiliser:

Symmons Plains:	basal - 250kg 9:13:17 topdressing - 50kg N/ha
Riccarton:	basal - 150kg 9:13:17

Weed Control:

Symmons Plains:	1.4l/ha Brominil, 1.5l/ha MCPA, 1.5l Hoegrass
Riccarton:	1.4l/ha Brominil, 1.5l MCPA, 1.5l Hoegrass

This is in contrast to last season when all lines, across a range of flowering times, performed better than Tahara at Symmons Plains. Tahara appears to be able to match it with other varieties in the tougher years and also when there are no frosts at flowering. In seasons with frosts end October/early November, later flowering lines such as AT509 and Tx94-98 perform relatively well. If in addition there is a reasonable finish to the season some of the later lines have yielded as much as 50% higher than Tahara.

Table 55: Triticale Trial Results – Grain Yields

Symmons Plains			
	Variety	Yield (t/ha)	% Tahara
<i>Replicated plots</i>	AT509	8.26	102.4
	W47	8.24	102.2
	W19	8.22	101.9
	Treat	8.14	101.0
	Tahara	8.06	100.0
	Tickit	8.04	99.8
	Muir	7.82	97.0
	Tx94-98	7.55	93.7
<i>Observation plots</i>	Everest		100.3
	W83		96.2
	ISR499-74		88.1

Riccarton			
	Variety	Yield (t/ha)	% Tahara
<i>Replicated plots</i>	Tahara	3.38	100.0
	W19	3.27	96.8
	Tx94-98	3.26	96.4
	AT509	3.20	94.6
<i>Observation plots</i>	Tickit		104.9
	Treat		86.8

Discussion:

The very late flowering line Tx94-98 tended to be lower yielding than Tahara at Symmons Plains but yielded relatively well at Riccarton (possibly greater frost damage in Tahara although differences could not be detected visually). ISR 499-74 lodged very badly compared with all other lines.

Further details:

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Conclusions:

Triticale yields were surprisingly good at Symmons Plains being on average higher than all except the best wheats. In contract at Riccarton the wheats tended to be higher yielding possibly due to a small amount of frost damage in the triticale.

It has been difficult to select a new triticale variety that is consistently higher yielding than Tahara. This appears to be complicated by greater variety x site as well as variety x year interaction in comparison with wheat trials. The front runners after several years of trials appear to be W19, W47, Treat, Tickit and AT509.



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