	í,	
	ŗ	
	2	
2	Ű	
`	-	

Falling Number		> 300	525	477	502	643	566	554	524	539	543	508	553	372	551	556	604	584	531	619
	Ū		28	27	39	42	42	35	14	28	41	46	38	39	41	46	58	52	58	68
Glutomatic	% Wet Gluten		29.9	32.7	37.1	35.2	34.9	36.8	30.2	34.4	32.3	29.1	35.9	42.4	41.9	30.4	35.0	32.0	33.6	32.0
raph	RBD		65.1	82.6	87.3	72.3	38.6	52.2	62.6	73.8	70.0	43.5	67.0	62.0	52.8	71.9	61.8	51.6	59.8	31.9
Mixograph	МРТ		2.81	2.57	1.80	2.32	3.46	3.30	3.13	2.60	2.58	4.00	1.91	3.11	3.25	2.68	2.39	3.98	2.63	5.53
Semolina Colour	Minolta b *		31.07	30.47	29.57	31.27	30.31	30.04	31.21	30.22	30.33	30.28	30.88	26.55	27.92	31.06	30.60	31.20	30.19	29.63
Milling Yield	Semolina Yield		70.7	70.9	70.2	70.8	70.0	69.4	70.8	70.2	70.6	71.0	70.5	70.2	70.7	70.0	70.5	70.5	68.7	70.0
Hardness	SKHI		86.2	85.7	86.3	85.5	83.0	86.1	89.0	83.2	83.7	79.5	89.5	92.7	80.1	83.0	90.3	96.1	90.6	96.3
Grain Protein	CP @11.0%	> 13.0	11.9	13.0	14.6	13.7	13.8	14.7	12.9	13.5	12.6	11.7	14.0	15.4	15.2	12.1	14.1	13.4	14.0	13.5
GM	%		10.4	11.5	11.1	11.1	10.9	10.8	10	10.6	10.6	10.6	10.7	11.1	9.8	10.6	11.4	11.7	12.0	12.9
hard vitreous kernels	%	>80.0	89.7	88.7	85.4	95.7	66.6	86.0	92.6	84.1	87.3	70.9	0.09	96.3	99.7	72.7	95.3	92.3	73.1	72.7
Test Grain Weight	•		49.6	48.0	50.8	44.4	48.4	44.8	49.2	49.2	50.0	51.2	48.8	40.0	46.8	50.4	48.4	50.0	51.6	55.2
Hecto litre weight	>		83.4	80.3	80.0	81.5	78.4	78.7	82.4	80.2	81.0	82.1	81.1	81.4	82.5	80.7	81.6	84.1	80.4	82.2
Variety			Bellaroi	Caparoi	Bellaroi	Caparoi														
Sample		Spec for DR1	1	2	3	4	5	6	7	8	6	10	11	12	13	14	15	16	17	18

analvsis Appendix 3. Grain quality characteristics determined by laboratory

CWFS TRITICALE VARIETY TRIALS

Key Messages

- · Sow varieties inside their recommended window.
- · Triticale may have a niche in the eastern areas of Central West NSW.
- Triticale is less tolerant of moistures at flowering than wheats.
- · Delivery points and markets are a major influence on triticale production.

Why was it done?

To determine the performance of triticale varieties, a crop species uncommon in these low rainfall regions of Central West NSW.

How was it done?

Two replicated and randomised small plot trials were sown at Euabalong, Weethalle and Wirrinya.

The trials contained five varieties best suited to the conditions in the Central West, including both grain and grazing types.

Due to the lack of late season rain across the Central West the trial at Wirrinya was not harvested and has not been reported in this article.

Background

Euabalong Site

Hosts Ian & John Kemp Location "Derrida" Paddock history Barley Stubble Red Clay Loam Soil Type Soil fertility pH (1:5 water) 5.9 Colwell P 35 mg/kg Nitrate Nitrogen 25 mg/kg Sulphate Sulphur 3.7 mg/kg Zinc (DTPA) 0.35 mg/kg Sowing Date 11th June 2009 Harvest Date 13th November 2009 Plot Size 13m x 1.8m Seeding rate 100 kg/ha Fertiliser rate MAP at 66kg/ha Herbicide Site treated with 2L/ha Roundup 450 2 weeks prior to sowing, 1.5L/ha Roundup 450 and 1.5L/ha Triflur Xcel at sowing. During the season, the trial was given a single spray with MCPA Lve, Verdict and Axial to control weeds at both sites.

Des	sign			Block design with three replications and fully										
Меа	asur	eme	nts	E pi	stat rote		me	enir	vigour, yield, ings, test weight					
				Wee	thalle	e Rair	nfall	2009						
J	F	М	А	М	J	J	Α	S	0	Ν	D	Total		
15	15	35.5	41.5	6	98	16	4	16	10	29	70	356		

Weethalle Site

Hosts	Paul & Brenda McKinnon
Location	"Labertouche"
Paddock history	Long Fallow
Soil Type	Red Clay Loam
Soil fertility	pH (1:5 water) 6.1
	Colwell P 25 mg/kg
	Nitrate Nitrogen 7.3 mg/kg
	Sulphate Sulphur 1.6 mg/kg
	Zinc (DTPA) 0.36 mg/kg
Sowing Date	12 th June 2009
Harvest Date	16 th November 2009
Plot Size	13m x 1.8m
Seeding rate	100 kg/ha
Fertiliser rate	MAP at 66kg/ha
Herbicide	Site treated 2L/ha Roundup
	450 and 1.5L/ha Triflur Xcel at
	sowing.
Design	Block design with three
	replications and fully randomised
Measurements	Establishment, vigour, yield,
	protein, screenings, test weight and moisture

What Happened?

Both triticale variety trials were sown on the late break in June. The varieties varied in maturity and purpose. Hawkeye and Jawick are grain only varieties while Tobruk and Endeavour are dual purpose. Establishment was good across all plots and early vigour did not vary between varieties.

The Spring Field Day at Euabalong was held on18 September. At this stage the slower maturing Tobruk and Endeavour varieties were far less developed than the others. The Weethalle field day wasn't until November and at this site, Endeavour was showing severe water stress with very few heads.

Cereals

Table 1. Grain yield and quality of triticale varieties at Euabalong and Weethalle

	Euaba	along	Weet	halle
Variety	Yield (t/ha)	Protein %	Yield (t/ha)	Protein %
Hawkeye	0.46	15.1	0.71	14.0
Jawick	0.36	15.7	0.66	14.2
TSAOZ19	0.37	14.3	0	0
Tobruk	0	0	0.46	16.2
Endeavour	0	0	0.17	17.6

What does this mean?

Endeavour was sown far too late, well outside its optimal sowing window. It did not yield at Euabalong and yielded very little at Weethalle. Tobruk was also sown just outside its optimal sowing window and did not yield at Euabalong. Hawkeye, Jawick and the numbered line from AGT Seeds, were all sown inside their optimal windows. Hawkeye matured slightly quicker than Jawick.

At Euabalong, Hawkeye yielded higher than Jawick and the numbered line, while at Weethalle there was no difference between Hawkeye, Jawick and Tobruk.

Triticale is renowned for its tolerance of sandy acid soils with high exchangeable aluminium. Its tolerance to these soil constraints makes it favourable in areas where wheat and barley yield poorly as a result of these factors. In lower rainfall regions of Central West NSW triticale is not commonly grown, primarily due to its longer grain filling period and the dry springs experienced in recent years. The low value of triticale has also made it less favourable, with lower prices per tonne at the farm gate. However, in areas which have a strong local demand for feed grain, the case for triticale becomes more attractive.

Acknowledgements

Thanks to all the co-operators, hosts, district agronomists, seed and product suppliers and CWFS staff for assistance with our trials throughout the year.

Brad Davis

Central West Farming Systems

Peeds For All Seasons ♦ SeedWise Regional Mixes SeedWise Custom Blends ♦ SowEasy KickStart Treatment ◆ Pasture Legumes & Grasses • Brassicas & Herbs Tropical Legumes & Grasses **AusWest Seeds** Ph: 02 6852 1500 Fax: 02 6852 1393 Email auswest@auswestseeds.com.au Web: www.auswestseeds.com.au **ALL SEED VARIETIES ANY MIX YOU NEED ONE SUPPLIER**

PERFORMANCE OF WHEAT LINES AT LAKE CARGELLIGO, 2010

Caroline den Drijver Central West Farming Systems, Condobolin lan Menz

Industry & Investment NSW, Condobolin

Objectives

To compare the WUE of some of the best and poorest performing lines, and compare yields and grain quality.

Methods

Location: Lake Cargelligo Rainfall (2010):

Mont	thly Ra	ainfall	(mm)									Total
Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(mm)
1.5	121.6	35.9	36.4	35.4	11.5	86.9	30.5	52.8	133.4	98.8	93.7	738.4
						F	allow R	ainfall (Dec 09 ·	- Mar 10))	218.0
						C	Growing	Seasor	n Rainfa	II (Apr –	Oct)	386.9

Trial Details:

Sowing Date:	7 May 2010						
Sowing Rate:	30 kg/ha						
Wheat Lines	Axe Caparoi Catalina EGA_Gregory Ellison Gladius Lang Longreach Crusader LPB 0965 LPB 2271 Merinda Strzelecki Sunstate Sunvex Ventura	Bolac Carinya Cunningham EGA_Wedgetail Espada Jandaroi Livingston Longreach Lincoln LPB 2148 LPB 2461 Sentinal 3R Sun 440 OH Sunvale Sunzell Waggan					
Fertiliser - applied at sowing	60 kg/ha MAP						
Chemical Treatments - post sowing	Axial - 300 mL/ha Velocity – 500 mL/ha Adigor – 500 mL/100 L	Velocity – 500 mL/ha					
Harvesting - date - methods	22 November 2010	-					
- methous	Direct neaded – Open						

Trial Design: All lines were replicated three times. Plots were sown at 10m and adjusted to 9m was harvested. Plot width was measured at 1.75m.

€ 44