

NYNGAN REGIONAL SITE RESULTS 2008

Site Chairman	Kent Johnston	Rainfall	mm
Site Treasurer	Heather Wass	Jan	72.0
District Agronomist	Tim McNee	Feb	38.0
		Mar	46.0
Trial Conduct	Allan L'Estrange	Apr	0.0
	Katrina McDougall	May	2.4
Trial Analysis	Helen Nicol	Jun	66.6
		Jul	7.4
Cooperator	Wass Family	Aug	30.2
Property	"The Plains", Nyngan NSW	Sep	15.8
Paddock History	Chemical fallow ('07), Wheat ('06)	Oct	22.0
Soil Test Data	Sandy clay loam, pH (CaCl ₂) = 5.3,	Nov	90.0
(0-10 cm)	P (Colwell) = 31 mg/kg	Dec	10.6
	Nitrate N = 16 mg/kg	Total	401.0

Compiled by **Tim McNee**
District Agronomist,
NSW DPI, Nyngan

Nyngan Main Sown Wheat Variety Trial

Introduction

This variety trial was sown with 36 wheat varieties of a range of maturities on 5 June 2008 which was later than desirable. Seed was sown at 50 kg/ha with 6.6 N kg/ha & 14.5 P kg/ha as MAP. Adequate weed control was achieved with an application of diclofop-methyl and MCPA LVE post emergence. A well managed long fallow period prior to seeding provided good subsoil moisture. Plots were 12m*1.5m and replicated three times.

Results

Variety	Yield (t/ha)	No	Protein (%)	No	Screening (%)	No	Test Wgt (kg/hL)	No
EGA_STAMPEDE	2.92	1	11.08	36	8.92	4	79.67	9
CORRELL	2.54	2	12.40	30	9.49	1	76.67	33
PEAKE	2.50	3	12.93	23	9.22	3	77.67	30
AXE	2.44	4	13.24	13	4.82	29	79.83	7
HAWKEYE	2.44	5	11.13	35	3.28	36	74.83	35
VENTURA	2.40	6	12.19	32	6.50	17	80.17	4
GLADIUS	2.39	7	12.88	24	7.56	9	78.00	29
ESPADA	2.37	8	13.31	10	6.12	20	78.00	28
WW12410	2.36	9	11.97	33	5.95	22	79.17	18
LIVINGSTON	2.35	10	13.27	12	7.44	12	79.50	13
ELLISON	2.34	11	13.90	5	8.87	5	78.33	25
SENTINEL	2.33	12	13.18	14	4.08	35	80.00	6
EGA_BOUNTY	2.30	13	12.79	25	4.95	27	80.50	3
LINCOLN	2.29	14	12.61	27	7.45	11	80.00	5
YOUNG	2.26	15	13.04	18	8.57	7	79.00	20
DAKATA	2.24	16	12.93	21	8.20	8	77.00	31
CARINYA	2.24	17	12.40	29	4.78	31	79.50	11
SUNZELL	2.24	18	13.61	8	6.49	18	78.83	22
MERINDA	2.21	19	13.09	17	7.50	10	79.17	17
EGA_EAGLEHAWK	2.19	20	14.33	2	7.08	15	78.17	26
EGA_WILLS	2.19	21	13.13	16	4.49	33	78.83	21
EGA_GREGORY	2.15	22	13.01	19	5.47	24	80.67	2
HORNET	2.12	23	14.12	4	7.09	14	78.17	27
CATALINA	2.11	24	12.33	31	6.43	19	81.17	1
CRUSADER	2.11	25	12.60	28	4.70	32	79.83	8
JAYWICK	2.09	26	11.28	34	5.31	26	70.17	36
LPB03-1109	2.08	27	13.76	6	4.85	28	78.50	23
BOLAC	2.04	28	14.59	1	6.89	16	75.83	34
DRYSDALE	1.94	29	12.93	22	9.24	2	79.50	12
JANZ	1.92	30	12.97	20	5.92	23	79.00	19
STRZELECKI	1.91	31	13.17	15	8.72	6	77.00	32
SUN434H	1.86	32	14.32	3	4.82	30	78.50	24
GBA_SAPPHIRE	1.84	33	12.73	26	6.00	21	79.67	10
EGA_BURKE	1.79	34	13.28	11	4.31	34	79.33	15
DERRIMUT	1.51	35	13.52	9	7.43	13	79.33	14
SUNVALE	1.49	36	13.66	7	5.41	25	79.33	16
			LSD = 0.94		LSD = 1.60		LSD = 2.33	

	P = 0.07 NSS	P <0.001 Significant	P <0.001 Significant	P <0.001 Significant
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NSS = Not statistically significant **Significant** = statistically significant

*Varieties that vary by less than the LSD are not statistically different.

*Many factors affect the relative performance of varieties in a trial. Varietal decisions should therefore not be based solely on a varieties performance in a limited number of trials.

Comments

Once again grain yield was not statistically significant although protein, screenings and test weight were.

The main qualification that needs to be made when interpreting the results is the relative maturity of varieties. The 5 June sowing date means that faster maturing varieties like Axe have an advantage over slower varieties like Sunzell and EGA Eaglehawk and the results need to be interpreted in this context.

There were 15 varieties that were common to the early and main season wheat variety trial. The grain yield for these varieties at each sowing time is collated below. The increase or decrease in yields with later sowing has not been statistically analysed and should be viewed as a guide only.

Variety	Yield (t/ha)		Sowing time response (t/ha)	
	23 April	5 June	Decrease	Increase
BOLAC	2.22	2.04	0.18	
CARINYA	2.42	2.24	0.18	
CORRELL	2.38	2.54		0.16
DAKATA	2.42	2.24	0.18	
EGA_BOUNTY	2.14	2.30		0.16
EGA_GREGORY	2.07	2.15		0.08
EGA_WILLS	1.99	2.19		0.20
ELLISON	1.86	2.34		0.48
GLADIUS	1.69	2.39		0.70
HORNET	2.61	2.12	0.49	
MERINDA	2.47	2.21	0.26	
SENTINEL	2.33	2.33	same	same
STRZELECKI	2.51	1.91	0.60	
SUNVALE	2.04	1.49	0.55	
SUNZELL	2.18	2.24		0.06
Comparison not statistically analysed				