



Corack regains podium in 2015 wheat trials

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The widely adapted, 2011 release wheat variety, Corack, has again dominated statewide wheat trials, building on its wins in 2013 and 2012 and well surpassing the 2014 leaders, Trojan and Cosmick.

Corack produced an average yield of 2.89t/ha, just leading the new variety Scepter (2.85t/ha) and widely grown, Mace (2.77t/ha). These varieties were among 56 commercial varieties tested at 29 SARDI managed, National Wheat Variety Trial (NVT) sites across South Australia in 2015. The trials, mostly funded by GRDC, also tested a further 39 advanced lines from wheat breeding companies operating throughout Australia.

In a season producing weather conditions similar to 2014 albeit drier, 2015 saw a good early break from rains throughout autumn in most districts except the South East, prior to wet and cold conditions through early winter and extremely dry and hot August and spring conditions in all districts. Overall annual rainfall was in the decile range 2-6 across most of cropping area of SA, but lower in southern coastal districts and particularly the lower South East. Frequent periods of very cold temperatures throughout the eastern border districts from August through to October coupled with dry and many heat events resulted in the failure of trials at Palmer and Keith with variable results from these sites considered invalid for public release.

In spite of the generally very low rainfall and hot spring, the remaining 27 valid trials all produced surprisingly good results, with grain yields across all sites averaging 2.48 t/ha, which was around 30% below the 5 year (2010-2014) average of 3.46 t/ha and the 3.11 t/ha achieved in 2014. The individual site yields ranged from 0.75 t/ha at Nunjikompita, to 6.15 t/ha at Connurra, with all trials sown between May 4th and June 18th (Piednippie site eventually sown at Poochera due to lack of opening rainfall). The vast majority of trials were sown relatively early, viz, prior to mid-May while very dry conditions in the South East prevented sowing much before the last week of May.

Very dry and hot conditions through August and Spring were detrimental to grain quality across most trials. While grain protein increased from 11.4 percent in 2014 to 12.8 percent in 2015, all other receival quality characteristics were poorer. Screenings increased from 2.4 to 5.5 percent (range 1 to 14 percent across 2015 sites), and test weight declined from 81.9



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to 78.2 kg/hl (range 72.1 to 84.8) across all trials in 2015. With 12 trial sites producing screenings above the milling wheat maximum specification of 5 percent and 4 sites producing test weights below the new 76 kg/hl minimum specification, 2015 provided some good opportunity for varietal discrimination on these characteristics and particularly among varieties with little previous evaluation. In relation to other grain quality features, no black point, sprouted or white grain was observed in 2015 trials. Falling

number tests were performed on a range of susceptible varieties from all trials and no sites fell below the 300 minimum standard.

Although good early winter rainfall set potential for high yields and conditions were favourable for foliar diseases, the incidence and level of infection on farm was generally low.

The very dry conditions commencing in August and proactive disease control, saw little impact from stripe rust or any other disease in trials. It must be reminded that wheat NVT's are managed for disease control, using up-front (Impact®) and in-crop fungicides where diseases are detected and have the potential to cause significant yield losses.

Overall, the 2015 seasonal conditions again tended to favour mid flowering and maturing varieties, a trend seen in many recent years.

When averaged across all sites, the 2011 AGT release, Corack, led all commercial varieties for grain yield, 2 percent ahead of the new variety Scepter and 5 percent ahead of Mace. Ranging from 7 to 11 percent below Corack were Beckom, Emu Rock, Wyakatchem, AGT Katana, Trojan, Cobra and Cosmick respectively.

Generally within each SA region, Corack, Scepter and Mace featured in the highest rankings but Corack was displaced as leader by Scepter through Upper Eyre Peninsula sites and by Cosmick and Beckom, across Murray Mallee sites.

Despite this, long term data shows Corack as a widely adapted variety and highest yielding in all regions except the Murray Mallee.

Many Mallee NVT sites were again subjected to frosts and very cold conditions around flowering in 2015 and sensitivity to very cold temperature leading to lowered pollen production and viability has been implicated in the poorer performance of Wyakatchem and the derivatives, Corack and Mace in the past.

Despite showing consistent high yield, Corack has not been widely adopted by growers, being an APW quality variety coupled



with blackpoint, leaf rust and stripe rust susceptibility and high risk of powdery mildew.

The second ranked variety, Scepter was released by AGT in spring 2015 as a AH quality alternative to the widely grown variety, Mace. Scepter is derived from Mace and has the advantage of slightly improved stripe rust resistance, improved grain yield but slightly less blackpoint tolerance.

In only its first year of NVT evaluation in SA, Scepter significantly outyielded Mace within 5 of 26 trials, to average a 2 percent yield improvement, although the advantage was much more in the Murray mallee and other low yielding (<2t/ha) environments.

Mace was third ranked across all 2015 NVT and continues to justify the widespread appeal with growers.

It represented 59 percent of deliveries to Viterra over the 2015/16 harvest but is beginning to develop some flaws in characteristics. Apart from its high susceptibility to stripe rust, Mace has now developed an MSS reaction to a new leaf rust strain and is SVS to septoria triticii blotch and susceptible to eyespot.

Trojan, a later maturing APW quality variety developed by Longreach, was the highest yielding variety in 2014 NVT. Not surprisingly, Trojan was less suited to the very hot and dry spring conditions experienced in 2015 but nevertheless performed well for its maturity and was 11 percent below Corack. Trojan has been found to perform relatively well when sown early viz. before May and the early sowing of NVT sites in 2015 may have benefited this variety. Despite the pressure on grain size in 2015, Trojan still produced grain of relatively high test weight and low to moderate screenings.

Cosmick, a mid season maturing AH quality variety developed by Intergrain was second highest yielding in 2014 but was much less suited to 2015 conditions. However it did lead within Mallee trials, perhaps indicating some tolerance of cold conditions relative to other varieties. However the pressures on grain size in 2015, verified that Cosmick can produce low test weights and high screenings as it returned the highest average screenings among varieties. Other varieties to record high screenings were Beckom, Estoc and Shield while low test weights were also seen in Shield, Justicia^{CLPLUS}, Correll, Cobra and Gadius. Many of these varieties have displayed these features in previous years.

Beckom, another new variety released by AGT in spring 2015, was the fourth ranked variety overall in trials and performed very well in the Mallee leading Mace and Corack by more than 6 percent. Beckom has AH quality, early to mid maturity and a moderate to good disease resistance profile but as indicated above, has only moderate grain size. It is unlikely to be widely grown in SA but may be suitable to the lower South East where its acid soil tolerance could also be beneficial.

Cutlass, another new variety released by AGT in 2015 averaged 15 percent below the yield of Corack across all sites. Cutlass has an APW classification and mid to late maturity like Yitpi and Trojan. Given its maturity, it was not expected to yield well in such a difficult season but Cutlass is seen as an alternative for mid April sowing and for frost risk management where Yitpi has been successful. Cutlass has not been evaluated in SA NVT prior

to 2015 and displayed moderate to good grain receival quality similar to Trojan and Yitpi.

Among the imidazolinone tolerant varieties, some interest was on Hatchet^{CLPLUS} which was released in early 2015 as a very early flowering, IMI tolerant alternative to Axe with CCN resistance and improved stem rust resistance. Across 2014 and 2015, Hatchet^{CLPLUS} has struggled to match the yield of Axe and has been well below alternative IMI tolerant varieties such as Grenade^{CLPLUS} and Kord^{CLPLUS}. Its very early flowering has been problematic with frosts in the many areas suitable for it in 2014 and 2015. Grenade^{CLPLUS} continues to be the highest yielding IMI tolerant variety across all NVT sites although only a few percent separated the yields of this group in 2015.

Durum wheat

Across the 6 central region durum NVT sites, average site yields were 2.17 t/ha, being 33 and 23 percent below the bread wheat site averages in the Mid North and Yorke Peninsula sites respectively. As expected, the dry and hot conditions throughout flowering and grain-fill were not conducive for durum.

Saintly produced the highest average yields of 2.49 t/ha within the Mid North and Yorke Peninsula trials, but was closely followed by the new variety DBA Aurora at 2.44 t/ha. Both varieties had similar yield within Yorke Peninsula trials but Saintly was 4 percent higher in the Mid North sites. Across the longer term results, these two varieties are performing very similarly in Yorke Peninsula and DBA Aurora has a 1 percent advantage in Mid North trials. All other durum varieties evaluated in 2015, performed relatively poorly being generally 10 to 15 percent lower yielding than Saintly and DBA Aurora.

While durum yields were clearly impacted by the dry spring conditions, quality was also affected. All 6 trials and all varieties exceeded minimum protein requirements for DR1 and averaged 15.8 percent. Only WID802 at two sites and Saintly at one site, failed to make the minimum test weight specification of 76kg/hl. However, grain screenings was most impacted by seasonal conditions with all trials averaging 8.1 percent and as expected Yawa and WID802 averaged 12.3 and 11.5 percent respectively and failed to make DR1 at any site. Saintly and DBA Aurora classified DR1 at one site, Turretfield, while Caparoi continued to produce the most consistent high quality among varieties and classified DR1 at 5 sites.

The attached tables support all of the data cited within this report but further information can be found at the NVT website, nvtonline.com.au.

More specific varietal information can be found in the 2016 Crop Variety Sowing Guide, and the recently very recently updated 2016 Crop Variety Disease guide at pir.sa.gov.au ■

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Wheat

Variety	SA Wheat Variety Yield Performance (2015 and long term, 2010-2015, expressed as a t/ha and % of site average yield)										Long Term average across sites(10-15)				Long Term average across sites(10-15)								
	Mid North					Upper, Eastern and Western Eyre Peninsula					Long Term average across sites(10-15)		Long Term average across sites(10-15)		Yorkie Peninsula								
	2015 (% site average)					2015 (as % site average)					LT (2010-15)	as %	LT (2010-15)	as %	2015 (% site average)		2015 (% site average)		Wok-urna	Urania	Paskeville	as %	trial #
AGT Katana	105	104	104	105	105	105	111	95	98	96	99	2.08	103	33	102	97	105	105	105	102	15	102	15
Axe	104	103	97	101	3.45	110	110	70	72	100	95	1.97	97	33	107	100	104	100	94	100	15	107	15
Beckom	107	103	102	101	3.66	103	108	108	100	101	102	2.20	108	20	102	106	106	106	102	106	15	102	15
Cobra	102	99	105	102	3.60	107	83	83	101	91	109	2.09	103	33	97	101	104	104	104	104	15	104	15
Corack	118	109	117	124	3.83	111	88	88	93	101	110	2.24	110	33	118	112	113	113	113	113	15	113	15
Cosmick	100	101	98	97	3.67	107	102	102	105	92	107	2.17	107	20	88	101	100	100	100	100	15	100	15
Cutlass	91	98	96	90	3.40	99	81	110	104	92	90				91	97	106	106	106	106	15	106	15
DS Darwin	95	100	104	95	3.40	99	-	-	-	-	-				103	100	99	99	99	99	15	99	15
Emu Rock	108	104	105	107	3.63	105	112	87	95	99	111	2.10	103	33	116	102	108	108	108	108	15	108	15
Estoc	102	100	99	93	3.39	99	84	118	108	92	96	2.04	100	33	93	96	100	100	100	100	15	100	15
Gladius	93	100	99	100	3.42	99	101	97	90	93	96	2.01	99	33	89	94	91	91	91	91	15	91	15
Grenade CL Plus	104	97	95	99	3.38	98	97	89	91	98	98	2.00	98	33	90	100	98	98	98	98	15	98	15
Harper	92	93	89	84	3.31	96	-	-	-	-	-				91	91	92	92	92	92	15	92	15
Hatchet CL Plus	89	103	98	108	3.55	103	115	92	82	111	91	1.94	96	27	93	92	101	101	101	101	15	101	15
Kord CL Plus	97	94	92	103	3.40	99	104	100	91	105	96	2.02	100	26	91	94	92	92	92	92	15	92	15
Mace	112	101	111	110	3.78	110	108	100	100	112	100	2.22	109	33	112	102	108	108	108	108	15	108	15
Scepter	116	106	110	112	3.54	103	119	108	109	101	101	2.06	101	33	95	98	96	96	96	96	15	96	15
Scout	102	98	100	92	3.40	99	91	94	92	71	94	2.06	101	33	85	96	94	94	94	94	15	94	15
Shield	98	91	93	99	3.40	99	91	95	95	104	98	2.06	101	33	85	96	94	94	94	94	15	94	15
Tenfour	111	116	127	121	4.01	116	125	94	102	102	112	2.25	111	14	-	-	-	-	-	-	15	-	15
Trojan	102	103	97	93	3.62	105	93	115	111	93	103	2.16	106	33	99	103	103	103	103	103	15	103	15
Wyalkatchem	100	102	105	101	3.58	104	99	110	110	93	98	2.12	104	33	107	103	98	98	98	98	15	98	15
Yitpi	89	89	88	81	3.24	94	77	115	102	83	92	1.93	95	26	88	89	91	91	91	91	15	91	15
Site average t/ha	2.69	3.78	2.83	2.33	4.03	100	1.5	0.75	1.29	0.98	2.76	2.89	100	2.44	3.3	3.45	3.45	3.45	3.45	3.69	3.69	3.69	
LSD (t/ha)	7	8	7	8			6	10	7	12	6				10	4	8	8	8	8			
Sowing Date	12 May	16 May	12 May	28 May			6 May	7 May	7 May	18 June	13 May				14 May	8 May	11 May	11 May	11 May	11 May			
Soil Type	SCL/GLS	CL	L/LMC	FSL/LC			SL	SL	SL	SL	SL				LS/CFS	SCL	FS/SCL	FS/SCL	FS/SCL	FS/SCL			
J-M / A-O rain mm	36/220	34/212	75/322	64/262			32/216	0/184	15/170	14/228	38/252				34/212		50/194	50/194	50/194	50/194			
pHwater	8.4	6.7	6.6	7.9			8.8	8.6	9.3	8.2	8.2				7.2	8.4	7.9	7.9	7.9	7.9			
previous crop	medic	canola	canola	medic			Pasture	Pasture	Pasture	Wheat	Wheat				lentils	medic	canola	canola	canola	canola			
Site stresses	dl	dl	dl	dl			fr,dl,r	dl,mice	dl,mice	dl,lb,r	fr,dl,N				dl								

Abbreviations
 Soil type: S=sand, L=loam, C=clay, Li=light, M=medium, H=heavy, F=fine,
 Rain recorded in mm, / = separates top soil from sub soil
 Site stress factors: dl=dry post anthesis, f=frost, lb= latebreak, N=low N,r=rhizoctonia
 Data source: NWT & SARDI/GRDC (long term data based on weighted analysis of sites, 2010-2015) *Durum varieties trialed separately and not completely valid to compare against bread wheats
 Data analysis by GRDC funded National Statistics Group



Wheat

Variety	SA Wheat Variety Yield Performance (2015 and long term, 2010-2015, expressed as a t/ha and % of site average yield)										York Peninsula									
	Mid North					Upper, Eastern and Western Eyre Peninsula					Long Term average across sites(10-15)									
	2015 (% site average)					2015 (as % site average)					2015 (% site average)									
	Boo-eroo Centre	Mintaro	Spal-ding	Turret-field	Long Term average across sites(10-15)	Kimba	Minn-ipa	Mitchell-ville	Nunji-kompita	Pen-pong	Pooch-era	Warr-amboo	LT as % (2010-15)	trial #	Long Term average across sites(10-15)	LT as % (2010-15)	trial #			
Durums																				
Caparoi		90	102	92	3.22	96	13								69	102	95	3.32	99	15
DBA-Aurora		118	105	111	3.49	104	13								122	110	114	3.55	106	15
Hyperno		97	99	89	3.31	99	13								98	97	94	3.23	97	15
Saintly		117	108	121	3.46	103	13								139	104	114	3.57	106	15
Tamaroi		95	97	108	3.22	96	13								108	105	114	3.25	97	15
Tijlkuri		82	88	65	3.20	95	13								53	92	93	3.29	98	15
WID802		101	97	105	3.36	100	13								108	100	99	3.41	102	15
Yawa		98	98	109	3.41	102	13								95	97	95	3.42	102	15
Site av. yield t/ha		2.13	3.12	1.61											1.3	2.64	2.24			
LSD (%)		8	8	12											11	7	10			
Sowing Date	12 May	16 May	12 May	28 May											14 May	8 May	11 May			
Soil Type	SCL/GLS	CL	L/LMC	FSL/LC											LS/CFS	SCL	FS/SCL			
J-M / A-0 rain mm	36/220	34/212	75/322	64/262											34/212		50/194			
pHwater	8.4	6.7	6.6	7.9											7.2	8.4	7.9			
previous crop	medic	canola	canola	medic											lentils	medic	canola			
Site stresses	di	di	di	di											di					
Abbreviations																				
Soil type: S=sand, L=loam, C=clay, Li=light, M=medium, H=heavy, F=fine, Rain recorded in mm, / = separates top soil from sub soil																				
Site stress factors: di=dry post anthesis, f=frost, lb= latebreak, N=low N,r=rhizoctonia																				
Data source: NVT & SARDI/GRDC (long term data based on weighted analysis of sites, 2010-2015) *Durum varieties trialed separately and not completely valid to compare against bread wheats																				
Data analysis by GRDC funded National Statistics Group																				



Wheat

Variety	Lower Eyre Peninsula										South East					Murray Malley							
	2015 (as % site average)					Long Term average across sites('10-15)					2015 (as % site average)					Long Term average across sites('10-15)							
	Cummins	Ruddall	Ungarra	Wanilla	WTL	LT	#	Conmura	Keith	Sherwood	Woolley	WTL	LT	#	Geranium	Nangari	Palmer	Pinnaroo	Wanbi	Wunakar	LT	#	
AGT Katana	101	107	106	107	3.94	103	17	101	97	97	97	3.81	101	19	112	102		96	105	105	2.34	104	30
Axe	99	91	98	88	3.67	95	17	91	109	109	135	3.60	96	19	62	76		93	100	78	2.19	97	30
Beckom	104	95	108	112	4.18	109	11	106	126	116	116	4.02	107	12	128	108		111	105	116	2.50	111	18
Cobra	103	108	99	101	4.10	107	17	118	80	144	144	3.92	104	16	65	109		77	98	88	2.17	96	24
Corack	111	114	119	119	4.28	112	17	113	115	147	147	4.08	108	19	100	111		92	130	97	2.48	110	30
Cosmick	106	104	102	100	4.18	109	11	95	98	91	91	4.03	107	8	125	105		123	108	114	2.44	108	18
Cutlass	110	90	105	106	4.06	106	4	101	115	34	34	3.97	106	4	106	107		109	93	111	2.34	104	6
DS Darwin	96	90	97	98	3.83	100	10	-	-	-	-	4.61	98	8	-	-		-	-	-	-	-	-
DS Pascal								101	87	31													
Emu Rock	103	109	111	107	3.93	102	17	98	102	117	117	3.79	101	19	75	104		76	114	101	2.36	105	30
Estoc	100	93	92	100	3.79	99	17	101	104	76	76	3.74	99	19	114	90		105	94	102	2.30	102	30
Gladius	90	90	90	90	3.76	98	17	94	103	95	95	3.70	98	19	108	93		96	88	95	2.25	100	30
Grenade ^{CL Plus}	98	98	95	91	3.68	96	17	88	113	104	104	3.63	97	19	99	87		96	80	101	2.26	100	30
Harper	91	92	86	91	3.72	97	10	90	105	63	63	3.69	98	12	116	104		106	96	115	2.30	102	18
Hatchet ^{CL Plus}	98	89	86	83	3.55	93	14	92	64	127	127	3.55	94	12	47	53		89	94	69	2.11	94	24
Kord ^{CL Plus}	84	84	87	77	3.73	97	14	88	105	92	92	3.68	98	15	117	93		102	100	95	2.33	103	24
Mace	105	116	114	105	4.18	109	17	110	114	138	138	4.03	107	19	106	103		105	103	100	2.48	110	30
Scepter	108	115	112	112	4.28	111	4	108	133	134	134	4.09	109	4	113	105		113	101	119	2.61	116	6
Scout	104	82	102	102	3.97	103	17	101	119	98	98	3.87	103	19	115	95		101	74	98	2.28	101	30
Shield	101	90	88	91	3.81	99	17	94	115	133	133	3.73	99	15	102	121		93	99	116	2.39	106	30
Tenfour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	82		107	113	94	2.43	108	18
Trojan	108	93	103	94	4.16	108	17	109	97	73	73	5.07	107	11	138	101		116	109	100	2.40	107	30
Wyalkatchem	103	106	103	107	4.04	105	17	106	107	108	108	3.89	103	19	101	97		94	97	99	2.31	103	30
Yitpi	85	74	86	91	3.56	93	13	86	94	64	64	3.58	95	15	100	97		106	95	101	2.18	97	24
Site average t/ha	3.83	3.16	4.33	3.28	4.11	100		6.15	1.81	1	1	4.08		1.35	1.88		1.48	1.69	1.65	2.39	100		
LSD (%)	8	5	8	10				7	18	20				14	10		10	12	8				
Date sown	13 May	12 May	15 May	15 May			28 May		22 May	22 May				7 May	4 May		7 May	11 May	4 May				
Soil Type	L	SL	SL	SL			Black CL/Lime-stone	Brown CL/Lime-stone	Clayed SL/C	grey C				CL	SCL		CL	CL	CL	SCL			
J-M / A-0 rain mm	88/411	40/229	37/249	35/237			97/259	73/188	48/194	51/221				68/203	29/146	43/184	67/183	48/127	36/132				
pHwater	8.2	8.3	6.6	8.2			7.7	6.6	5.7	8.3				8.7	8	8.3	8.7	7.7	8.9				
previous crop	Canola	Pasture	Canola	Canola			Beans	Beans	Wheat	Wheat				TTcanola	pasture	pasture	Wheat	pasture	pasture				
Stress factors		dl					de,dl,fr	de,dl,fr	de,dl,fr	de,dl				dl,f	f	de,f,dl	dl	dl	f,dl				

Soil type: S=sand, L=loam, C=clay, Li=light, M=medium, H=heavy, F=fine **Site stress factors:** de= dry pre anthesis, dl=post anthesis moisture stress, f=frost **Data source:** SARDI/GRDC & NVT (long term data based on weighted analysis of sites, 2010-2015) **Data analysis by GRDC funded National Statistics Group**



Wheat

2015 Wheat variety performance for grain protein (% at 11% moisture) across NVT sites (continued on page7)																					
	Lower Eyre Peninsula						Mid North						South East						Yorke Peninsula		
	Cummins	Rudall	Ungarra	Wanilla	Mean		Boaleroo	Mintaro	Spalding	Turretfield	Mean	Conmurr	Sherwood	Wolseley	Mean	Paskeville	Urania	Wokurna	Mean		
DS Darwin	11.5	11.9	11.2	12.8	11.9	12.3	13.3	12.8	14.1	13.1	10.9	15.1	16.2	13.4	13.5	13.1	11.7	12.8			
DS Pascal											11.0	15.1	16.2	13.4							
AGT Katana	12.9	11.7	11.8	14.0	12.6	13.2	13.4	14.0	15.3	14.0	11.3	15.8	15.5	14.2	15.3	14.2	14.2	12.4	14.0		
Axe	12.6	12.2	12.4	14.3	12.9	12.6	13.6	13.9	14.2	13.6	11.2	14.8	13.8	13.3	14.9	13.5	13.5	12.9	13.8		
Beckom	11.7	11.7	11.5	12.2	11.8	12.9	13.1	13.7	14.5	13.6	10.2	14.0	13.9	12.1	15.0	13.3	11.9	13.4			
Cobra	12.0	11.7	12.0	13.7	12.4	13.2	13.1	13.8	14.6	13.7	10.7	16.1	14.2	13.6	14.9	13.6	11.9	13.5			
Corack	10.6	10.9	10.9	12.5	11.3	12.5	13.3	12.5	13.5	12.9	10.9	14.4	13.9	13.1	14.6	12.9	11.1	12.9			
Correll	13.3	12.9	13.2	13.9	13.3						11.7	16.1	15.3	14.4	16.2	14.8	12.9	14.6			
Cosmick	12.6	11.4	11.7	13.1	12.2	12.6	12.8	13.6	15.1	13.6	10.8	14.8	14.2	13.2	15.0	13.3	11.9	13.4			
Cutlass	11.8	11.7	11.0	13.1	11.9	13.1	13.4	14.0	15.1	13.9	10.4	13.8	16.2	12.7	15.1	14.3	11.9	13.8			
Emu Rock	12.7	11.5	11.8	14.2	12.6	13.2	13.1	14.1	15.4	13.9	11.8	15.2	15.4	14.2	15.5	13.9	12.3	13.9			
Espada	12.7	12.1	12.2	13.9	12.7	13.9	14.1	14.5	15.2	14.4	11.1	14.9	15.5	13.8	16.3	15.0	12.6	14.7			
Estoc	12.7	12.5	12.5	13.7	12.9	14.2	13.3	15.0	16.2	14.7	11.2	15.5	15.9	13.5	17.2	15.7	12.6	15.2			
Gladius	12.7	13.2	12.7	14.3	13.2	14.0	13.4	14.9	15.3	14.4	11.3	15.8	15.5	14.2	16.6	15.6	13.4	15.2			
Grenade ^{CL Plus}	12.3	11.8	12.4	13.8	12.6	13.3	13.1	14.7	15.9	14.2	11.0	15.4	15.2	13.9	16.6	13.7	12.2	14.2			
Harper	13.2	12.7	12.6	13.9	13.1	13.7	13.4	14.2	16.1	14.4	10.3	15.2	15.8	13.8	15.8	15.5	13.4	14.9			
Hatchet ^{CL Plus}	13.3	13.2	13.7	15.2	13.8	14.2	14.1	14.5	15.1	14.5	11.7	16.4	15.0	14.4	15.8	15.1	12.7	14.6			
Justica ^{CL Plus}	12.9	13.5	12.9	14.6	13.5	15.3	13.8	15.6	16.5	15.3	11.1	15.9	15.9	14.3	17.1	15.5	13.0	15.2			
Kord ^{CL Plus}	13.1	13.2	12.5	14.3	13.3	13.4	13.9	14.7	15.5	14.4	11.2	15.4	15.2	13.9	16.3	15.1	12.5	14.6			
Mace	11.7	11.4	10.9	13.4	11.9	13.0	13.1	12.9	13.8	13.2	10.4	14.5	14.1	13.0	15.0	12.5	11.9	13.1			
Phantom	12.3	12.8	12.1	13.8	12.7	13.6	13.6	14.3	15.6	14.3	10.9	15.5	16.6	13.5	15.1	14.4	13.5	14.4			
Scepter	11.5	10.8	11.0	12.9	11.5	12.5	12.0	13.5	14.4	13.1	10.1	13.3	13.4	12.3	14.1	12.7	11.7	12.8			
Scout	11.8	12.0	11.7	13.1	12.1	13.5	13.8	13.6	14.9	14.0	11.0	14.2	14.4	13.2	15.3	13.9	12.2	13.8			
Shield	12.1	12.2	12.3	13.9	12.6	13.8	13.6	15.4	16.0	14.7	10.8	15.0	15.7	13.8	16.8	14.0	12.7	14.5			
Tenfour						12.8	12.0	12.4	13.6	12.7											
Trojan	11.9	11.6	11.8	13.0	12.1	13.3	12.4	14.0	15.0	13.7	10.1	14.8	15.8	12.7	15.8	14.8	12.3	14.3			
Wallup						14.1	13.4	15.0	16.2	14.7	10.9	16.2	15.8	14.3	15.7	14.3	12.4	14.1			
Wyalkatchem	12.2	11.7	11.7	13.5	12.3	13.7	13.1	14.1	15.7	14.1	11.5	15.2	15.2	14.0	14.9	13.9	12.5	13.7			
Yitpi	13.4	13.2	12.8	13.8	13.3	13.6	13.4	14.9	16.0	14.5	11.0	15.7	16.0	14.2	16.2	15.5	12.7	14.8			



Wheat

2015 Wheat variety performance for grain protein (% at 11% moisture) across NVT sites (continued from page 6)

	Murray Mallee										Upper Eyre Peninsula					all sites	
	Geranium	Mangari	Pinnaroo	Wanbi	Wunkar	Mean	Kimba	Minnipa	Mitchelville	Nunjikompita	Penong	Poochera	Warrambo	Mean	Mean		
AGT Katana	12.5	13.0	10.2	15.0	14.2	13.0	14.9	14.6	10.1	14.0	13.8	12.8	8.8	12.7	13.3		
Axe	14.1	14.2	10.9	14.1	14.7	13.6	15.0	13.4	10.2	14.3	13.5	13.1	9.3	12.7	13.2		
Beckom	10.5	12.4	9.1	13.5	12.4	11.6	13.7	13.0	9.7	12.5	11.8	12.4	8.4	11.6	12.2		
Cobra	13.9	12.3	11.7	14.5	14.2	13.3	14.2	13.3	9.7	13.3	13.0	12.5	8.2	12.0	12.9		
Corrack	12.0	12.5	9.5	13.4	13.7	12.2	13.8	12.2	9.4	12.5	12.8	11.9	8.3	11.6	12.2		
Correll	12.0	11.7	10.9	14.9	12.9	12.5	16.6	13.4	9.5	12.8	12.7	12.9	8.5	12.3			
Cosnick	10.9	11.9	8.9	13.2	12.5	11.5	13.9	12.2	8.9	12.8	11.9	12.0	7.7	11.4	12.3		
Cutlass	11.4	12.2	9.8	14.3	13.3	12.2	14.9	14.1	10.9	12.5	13.0	12.4	8.8	12.4	12.7		
Emu Rock	13.7	13.7	11.3	14.6	14.2	13.5	14.9	13.8	9.9	13.4	13.3	12.4	8.7	12.3	13.2		
Espada	12.5	13.2	10.3	15.1	14.2	13.1	15.5	14.1	10.1	14.3	13.8	13.1	8.5	12.8	13.4		
Estoc	12.5	13.4	10.1	15.8	13.7	13.1	15.8	14.6	10.8	13.6	13.6	13.3	8.6	12.9	13.5		
Gladius	13.2	13.9	10.5	15.4	14.5	13.5	15.0	15.1	10.2	14.0	13.9	13.5	8.6	12.9	13.7		
Grenade ^{Cl. Plus}	11.6	12.6	10.8	14.3	13.0	12.5	15.0	13.3	9.1	13.1	12.8	12.1	8.5	12.0	13.0		
Harper	12.1	13.0	9.8	15.0	13.3	12.6											
Hatchet ^{Cl. Plus}	15.4	15.6	12.2	14.9	16.1	14.8	15.8	13.9	9.8	14.1	13.4	13.1	9.6	12.8	14.0		
Justica ^{Cl. Plus}	12.4	13.1	10.2	14.7	14.2	12.9	15.3	13.9	10.4	13.7	13.8	13.4	9.2	12.8	13.8		
Kord ^{Cl. Plus}	11.7	13.2	9.8	15.0	14.2	12.8	15.5	13.6	9.3	13.7	13.4	13.2	8.9	12.5	13.4		
Mace	12.2	12.6	9.8	14.4	14.1	12.6	14.0	11.9	9.3	12.5	12.5	11.7	8.6	11.5	12.4		
Phantom	12.2	12.0	10.1	15.2	13.4	12.6	15.6	13.2	10.8	13.0	12.7	13.4	8.7	12.5	13.2		
Scepter	11.7	11.7	9.2	14.2	12.8	11.9	13.6	12.7	8.4	12.4	12.0	11.4	8.0	11.2	12.0		
Scout	11.4	12.7	9.7	14.2	13.4	12.3	15.0	13.3	9.4	12.2	11.5	12.5	8.3	11.7	12.6		
Shield	12.8	11.7	10.2	14.7	12.8	12.5	15.8	13.5	10.3	12.9	12.6	12.7	8.7	12.4	13.2		
Tenfour	12.5	13.6	9.7	13.7	13.8	12.7	14.1	12.3	8.5	13.4	12.4	11.6	8.1	11.5			
Trojan	10.9	11.9	9.8	14.3	13.4	12.1	15.2	14.5	10.0	12.5	12.5	12.0	8.1	12.1	12.7		
Wyalkatchem	13.0	13.3	10.2	15.3	14.4	13.2	14.2	12.5	10.0	12.7	12.5	12.4	9.2	11.9	13.0		
Yitpi	12.1	12.6	10.1	15.2	13.9	12.8	15.5	13.9	10.9	12.8	13.5	12.8	8.8	12.6	13.5		



Wheat

		2015 Wheat variety performance for test weight (kg/ha) across NVT sites (continued on page 9)																							
		Lower Eyre Peninsula						Mid North						South East						Yorke Peninsula					
		Cummins	Rudall	Ungarra	Wanilla	Mean		Boooleroo	Mintaro	Spalding	Turretfield	Mean		Conmurr	Sherwood	Wolseley	Mean		Paskeville	Urania	Wokurna	Mean			
DS Darwin	82.70	77.48	81.87	80.21	80.57		77.50	80.67	77.41	79.22	78.70	86.23		81.27		86.23		78.04	81.09		86.23				
DS Pascal												85.88	81.27	79.46	83.12										
AGT Katana	82.60	79.46	82.36	80.11	81.13		78.38	82.22	76.55	79.81	79.24	87.30	81.09	77.13	81.84			77.80	81.63	80.57	80.00				
Axe	81.53	77.07	79.72	76.31	78.65		76.95	80.77	73.62	77.60	77.24	85.51	79.42	78.02	80.98			73.42	80.33	76.59	76.78				
Beckom	80.17	75.69	79.70	78.64	78.55		75.85	80.25	71.45	77.50	76.27	85.86	81.75	82.14	83.90			75.51	80.09	76.65	77.42				
Cobra	78.62	73.86	77.56	74.00	76.01		76.17	79.18	73.70	76.11	76.29	84.97	81.09	78.90	81.65			74.76	75.93	75.57	75.42				
Corack	81.97	79.74	80.45	77.35	79.87		77.50	78.56	75.23	77.19	77.12	85.79	81.13	76.95	81.29			72.43	78.92	79.28	76.87				
Correll	78.76	72.15	78.30	74.56	75.94							83.74	78.70	77.19	79.87			73.38	76.11	74.68	74.72				
Cosmick	80.29	77.29	80.75	76.81	78.78		74.00	78.76	71.69	74.76	74.80	84.93	76.81	73.20	78.31			70.40	79.30	75.33	75.01				
Cutlass	82.24	77.82	82.88	78.54	80.37		79.00	80.65	75.12	80.11	78.72	85.65	82.18	77.94	82.86			78.24	80.91	80.57	79.91				
Emu Rock	80.63	79.30	81.51	74.84	79.07		77.60	79.50	74.98	76.71	77.20	84.53	77.66	74.82	79.01			74.38	79.38	78.74	77.50				
Espada	79.44	73.98	78.44	74.14	76.50		77.23	77.27	70.99	76.15	75.41	83.98	79.68	79.24	80.96			73.38	76.75	76.23	75.45				
Estoc	82.96	79.06	82.88	81.07	81.49		80.03	82.92	75.89	82.10	80.24	86.57	82.82	79.32	83.82			79.34	81.45	81.61	80.80				
Gladius	80.27	75.08	79.48	76.43	77.81		74.92	79.34	72.90	77.21	76.09	84.47	79.52	77.62	80.54			72.05	77.74	74.74	74.84				
Grenade ^{CL Plus}	81.29	78.52	80.53	77.31	79.41		77.19	79.04	72.37	75.81	76.10	84.49	80.87	79.06	80.86			70.54	80.37	76.35	75.75				
Harper	80.97	77.19	81.75	78.72	79.66		78.56	79.81	75.73	79.70	78.45	85.35	80.87	79.06	81.76			78.48	79.74	78.54	78.92				
Hatchet ^{CL Plus}	80.55	78.26	79.58	78.90	79.32		76.05	80.05	74.90	77.37	77.09	85.43	78.26	74.02	79.24			71.13	80.65	79.66	77.15				
Justica ^{CL Plus}	78.56	72.77	78.74	72.73	75.70		72.94	76.37	70.28	75.99	73.90	83.68	78.66	78.38	80.24			71.65	76.83	74.16	74.21				
Kord ^{CL Plus}	79.42	74.04	79.60	75.10	77.04		76.13	78.64	73.20	78.94	76.73	84.87	80.95	78.74	81.52			73.08	78.26	77.31	76.22				
Mace	81.27	78.92	80.87	76.65	79.43		76.33	79.30	75.45	77.70	77.20	84.45	80.97	79.36	81.59			75.33	80.73	78.30	78.12				
Phantom	80.97	73.52	79.79	75.73	77.50		76.43	79.42	74.32	77.96	77.03	84.68	80.27	77.70	81.84			76.67	78.34	74.02	76.34				
Scepter	82.01	79.04	80.29	74.20	78.88		75.57	79.60	73.90	76.21	76.32	85.51	82.98	81.17	83.22			74.28	80.39	76.03	76.90				
Scout	83.20	79.34	83.44	79.62	81.40		77.56	80.83	78.22	79.14	78.94	86.65	81.61	77.58	81.95			77.31	81.39	78.96	79.22				
Shield	79.76	73.00	76.23	73.12	75.53		73.96	76.87	66.71	74.78	73.08	84.06	79.28	73.50	78.95			70.00	77.23	74.72	73.98				
Tenfour							73.58	80.67	74.00	76.95	76.30														
Trojan	83.58	77.66	83.34	78.90	80.87		79.32	83.08	77.78	81.51	80.42	86.66	82.74	81.29	84.34			78.42	80.25	79.00	79.22				
Wallup							76.59	80.97	73.98	77.05	77.15	86.17	80.37	80.13	82.22			77.15	78.22	76.57	77.31				
Wyalkatchem	79.87	77.37	80.57	75.71	78.38		75.59	78.86	73.04	76.19	75.92	85.27	79.76	78.34	81.12			75.57	77.96	75.61	76.38				
Yitpi	79.81	77.80	82.40	79.20	79.80		79.93	80.37	75.02	80.53	78.96	84.67	81.31	80.27	82.09			79.58	81.03	79.89	80.17				



Wheat

2015 Wheat variety performance for test weight (kg/ha) across NVT sites (continued from page 8)														
	Murray Mallee					Upper Eyre Peninsula					all sites			
	Geranium	Nangari	Pinnaroo	Wanbi	Wunkar	Mean	Kimba	Minnipa	Mitchelville	Nunjikompita	Penong	Poochera	Warramboo	Mean
AGT Katana	80.87	83.04	83.22	81.21	82.36	82.14	75.21	75.33	78.98	79.56	79.97	81.31	81.17	78.79
Axe	78.34	80.85	81.21	80.43	79.78	80.12	69.50	76.15	77.84	75.87	76.35	81.13	79.26	76.59
Beckom	79.46	82.32	82.03	80.85	82.46	81.42	71.11	73.48	78.62	78.44	79.62	80.51	79.06	77.26
Cobra	79.74	81.49	81.85	79.22	78.68	80.19	71.21	71.43	76.41	75.45	77.98	77.96	78.56	75.57
Corack	80.19	82.10	82.42	80.29	80.21	81.05	72.63	75.02	77.45	78.72	79.20	80.19	79.56	77.54
Correll	77.94	80.19	79.50	75.63	78.12	78.28	68.26	71.71	76.49	75.89	76.67	78.56	77.72	75.04
Cosmick	75.91	81.07	80.43	79.12	80.49	79.40	69.38	75.27	79.40	78.16	77.84	79.16	79.16	76.91
Cultass	80.75	81.85	82.26	79.91	80.23	81.00	76.61	75.02	80.69	78.94	76.39	80.27	78.36	78.04
Emu Rock	78.76	80.63	81.67	77.88	79.76	79.74	74.32	75.16	77.33	76.25	76.77	79.64	81.27	77.25
Espada	79.62	80.21	80.77	76.93	79.04	79.31	71.79	72.03	76.67	74.22	76.33	78.60	76.19	75.12
Estos	82.66	83.88	84.77	80.79	82.70	82.96	76.21	76.57	82.18	78.88	79.28	82.26	82.56	79.71
Gladius	79.22	80.25	81.57	77.58	76.83	79.09	73.84	73.00	77.34	76.41	77.25	79.06	78.32	76.46
Grenade ^{CL Plus}	80.03	81.25	82.07	79.22	80.61	80.64	72.47	76.11	79.83	78.64	79.42	79.89	79.30	77.95
Harper	81.33	82.07	83.32	80.19	81.55	81.69								
Hatchet ^{CL Plus}	78.46	80.09	81.21	79.42	79.22	79.68	71.05	75.00	78.94	76.03	77.72	79.14	79.26	76.73
Justica ^{CL Plus}	78.34	80.11	80.59	76.63	78.70	78.87	73.34	72.83	77.56	75.12	76.39	77.45	76.37	75.58
Kord ^{CL Plus}	80.69	80.99	81.81	78.40	79.76	80.33	71.95	74.20	79.16	77.66	77.64	79.56	78.66	76.98
Mace	78.68	81.35	80.51	80.63	80.21	80.28	73.28	77.82	80.49	79.22	79.91	81.17	78.98	78.70
Phantom	79.72	81.43	81.93	77.23	77.70	79.60	73.46	73.22	77.48	76.05	75.99	79.85	77.05	76.16
Scepter	78.90	82.46	81.91	80.65	81.89	81.16	72.15	75.31	79.66	78.34	79.64	82.12	78.80	78.00
Scout	81.77	83.66	83.72	80.45	81.71	82.26	74.72	78.78	80.57	80.29	81.81	81.73	82.18	80.01
Shield	77.60	81.57	80.55	78.44	80.51	79.74	66.57	71.79	76.91	78.14	79.00	78.18	76.95	75.36
Tenfour	75.57	80.45	79.89	78.82	79.66	78.88	70.95	73.70	75.51	74.92	76.87	79.16	76.85	75.42
Trojan	81.77	82.98	83.84	80.27	81.35	82.04	75.53	72.90	80.93	75.83	78.72	83.08	79.64	78.09
Wyalkatchem	77.47	81.09	81.11	80.05	79.44	79.83	72.90	73.90	77.60	76.93	78.40	79.93	78.90	77.98
Yitpi	81.37	82.20	82.66	80.15	80.73	81.42	76.67	76.83	80.83	79.58	77.47	80.63	80.05	78.86



Wheat

2015 Wheat variety performance for screenings (% < 2mm) across NVT sites (continued on page 11)																					
	Lower Eyre Peninsula						Mid North						South East						Yorke Peninsula		
	Cummins	Ruddall	Ungarra	Vanilla	Mean	Booleeroo	Mintaro	Spalding	Turretfield	Mean	Conmurra	Sherwood	Wolseley	Mean	Paskeville	Urania	Wokurna	Mean			
DS Darwin	1.1	6.8	3.3	3.7	3.7	3.5	5.3	11.2	11.9	8.0	1.8			1.8	4.8	2.7	2.5	3.3			
DS Pascal											1.1	1.7	3.8	1.9							
AGT Katana	4.6	4.7	4.4	6.0	4.9	8.0	7.5	15.4	15.2	11.5	1.9	2.2	17.1	7.1	8.0	3.3	4.8	5.4			
Axe	0.9	5.2	1.8	2.8	2.7	2.8	4.9	7.3	8.3	5.8	1.0	1.3	7.7	3.4	4.7	2.2	2.4	3.1			
Beckom	9.2	12.8	9.4	10.8	10.5	8.2	13.3	31.1	24.5	19.3	2.1	1.7	7.2	3.3	19.1	8.3	10.3	12.6			
Cobra	2.6	8.4	4.4	6.3	5.4	3.3	7.4	11.9	15.1	9.4	1.5	2.4	7.6	3.8	7.3	5.0	3.9	5.4			
Corack	0.8	6.3	1.9	2.4	2.8	3.4	10.0	7.9	8.0	7.3	0.8	1.6	12.2	4.9	9.8	3.3	2.9	5.3			
Correll	3.8	12.0	6.9	5.8	7.1						2.2	2.4	8.3	4.3	10.7	6.4	5.9	7.6			
Cosmick	6.4	10.5	7.3	9.9	8.5	15.2	9.5	21.0	28.8	18.6	2.4	3.7	19.9	8.7	21.2	7.4	9.5	12.7			
Cullass	2.6	9.0	2.5	6.2	5.1	7.3	8.6	21.1	7.6	11.1	1.3	1.0	4.3	2.0	11.0	6.2	4.5	7.2			
Emu Rock	3.8	7.5	5.4	7.7	6.1	5.7	8.5	12.2	13.2	9.9	2.0	3.0	15.9	7.0	14.6	3.8	4.0	7.5			
Espada	3.3	9.7	4.5	7.6	6.3	5.1	6.4	15.1	12.4	9.8	1.4	2.5	4.1	2.7	8.5	6.0	4.2	6.2			
Estoc	6.4	11.9	7.4	10.3	9.0	7.9	9.5	32.8	13.0	15.8	1.8	1.7	9.9	3.8	16.9	9.3	6.9	11.0			
Gladius	2.4	7.9	3.0	3.8	4.3	4.1	6.2	9.8	9.7	7.5	1.2	2.2	7.3	3.6	8.7	5.0	4.1	5.9			
Grenade ^{Cl. Plus}	2.4	6.2	4.4	5.1	4.5	5.2	6.0	15.9	14.9	10.5	1.2	1.6	7.6	3.5	13.7	4.1	3.7	7.2			
Harper	5.6	12.3	6.1	9.8	8.4	9.1	11.3	24.0	14.9	14.8	2.6	3.2	6.4	4.0	13.2	6.5	8.3	9.3			
Hatchet ^{Cl. Plus}	1.4	6.1	1.9	3.0	3.1	3.1	5.8	6.0	11.9	6.7	0.9	1.3	10.4	4.2	11.6	3.2	1.6	5.5			
Justica ^{Cl. Plus}	4.9	8.0	4.9	8.0	6.5	10.9	7.4	17.7	14.4	12.6	1.0	1.8	3.8	2.2	14.4	4.6	7.2	8.8			
Kord ^{Cl. Plus}	3.2	8.3	3.8	5.4	5.2	4.9	7.1	10.3	7.3	7.4	2.0	3.0	8.8	4.6	8.9	5.4	4.0	6.1			
Mace	3.0	5.2	3.7	6.7	4.6	5.1	9.2	17.9	17.5	12.4	1.8	1.5	8.8	4.0	6.8	3.0	4.2	4.7			
Phantom	3.2	13.8	5.6	10.6	8.3	4.5	7.0	14.8	13.9	10.0	2.1	2.5	7.7	3.6	9.2	6.4	6.2	7.3			
Scepter	2.8	10.0	3.7	5.4	5.4	4.1	7.6	12.9	12.5	9.3	2.0	2.7	8.3	4.3	6.9	3.2	4.1	4.7			
Scout	1.7	8.3	4.0	5.6	4.9	9.5	10.5	11.5	18.8	12.6	1.9	2.3	12.3	5.5	17.1	3.9	5.7	8.9			
Shield	3.0	10.9	7.0	8.1	7.2	5.8	10.7	17.8	19.2	13.4	2.2	2.9	18.8	8.0	12.0	5.4	5.8	7.8			
Tenfour						4.9	5.8	7.5	6.6	6.2											
Trojan	3.2	11.6	4.5	8.5	7.0	7.6	7.5	14.7	15.2	11.2	1.2	1.8	4.8	2.3	10.1	5.2	7.2	7.5			
Wallup						6.1	8.9	18.9	15.1	12.3	1.2	0.9	4.4	2.2	9.1	5.9	8.3	7.7			
Wyalkatchem	1.9	5.5	2.5	4.6	3.6	4.6	6.1	10.5	12.1	8.3	0.9	1.7	5.2	2.6	5.1	2.8	3.6	3.8			
Yitpi	4.8	10.5	3.8	6.5	6.4	6.5	7.4	19.2	6.2	9.8	2.2	1.5	2.7	2.1	6.7	5.1	4.6	5.5			



Wheat

		2015 Wheat variety performance for screenings (% < 2mm) across NVT sites (continued from page 10)															all sites	
		Murray Mallee					Upper Eyre Peninsula										Mean	
		Geranium	Nangari	Pinnaroo	Wanbi	Wunkar	Mean	Kimba	Minnipa	Mitchelville	Nunjikompita	Penong	Poochera	Warrambo	Mean			
AGT Katana	0.5	1.2	1.2	1.9	1.8	1.3	16.5	8.5	4.1	5.0	3.2	5.7	0.4	6.2	5.9			
Axe	0.8	0.9	1.0	2.1	1.8	1.3	8.5	2.5	0.1	2.8	1.2	3.1	0.2	2.6	3.0			
Beckom	0.5	1.0	1.1	2.7	2.2	1.5	26.7	11.9	2.0	8.7	3.2	7.2	2.0	8.8	8.9			
Cobra	0.3	1.7	2.5	3.1	3.6	2.2	9.6	6.9	0.8	4.3	0.1	3.9	0.2	3.7	4.8			
Corack	0.3	0.7	1.7	2.0	2.0	1.3	8.6	3.7	0.5	3.5	2.4	2.9	0.7	3.2	3.9			
Correll	0.8	2.8	2.4	4.3	5.2	3.1	18.5	7.7	2.1	5.3	3.9	4.6	1.3	6.2				
Cosmick	3.9	2.1	2.1	4.4	4.4	3.4	21.9	9.2	1.5	5.6	2.9	5.7	1.8	6.9	9.2			
Cutlass	1.1	0.9	1.2	2.5	2.4	1.6	16.2	8.5	3.3	8.0	7.5	3.8	1.0	6.9	5.6			
Emu Rock	0.6	1.5	1.8	2.1	2.7	1.7	12.7	8.3	1.3	6.2	2.6	4.0	0.4	5.0	5.8			
Espada	1.2	1.4	1.7	2.9	3.4	2.1	12.2	6.4	1.0	4.2	2.9	3.8	0.4	4.4	5.1			
Estoc	0.8	0.7	2.3	2.4	1.4	1.5	31.1	17.0	0.7	6.9	7.8	3.9	0.5	9.7	8.3			
Gladius	0.6	1.4	1.9	2.9	2.9	1.9	8.2	5.7	2.2	4.7	2.7	3.8	0.7	4.0	4.3			
Grenade ^{CL Plus}	0.9	0.8	0.9	2.9	2.4	1.6	14.1	4.3	0.3	2.4	1.0	3.6	0.6	3.8	4.8			
Harper	0.9	1.6	2.4	3.4	2.5	2.2												
Hatchet ^{CL Plus}	0.7	0.9	0.8	1.6	1.8	1.2	14.1	6.5	0.4	5.6	1.4	3.7	0.2	4.6	4.1			
Justica ^{CL Plus}	1.5	0.9	1.0	2.7	1.6	1.5	11.2	4.2	1.1	5.2	1.9	5.2	1.1	4.3	5.6			
Kord ^{CL Plus}	0.3	2.2	3.1	4.4	3.7	2.7	11.1	3.4	0.1	5.4	1.5	5.2	0.4	3.9	4.7			
Mace	0.4	0.8	0.9	1.7	1.5	1.0	13.7	4.7	0.8	3.2	1.5	5.6	0.4	4.2	5.0			
Phantom	0.7	1.7	1.9	3.7	2.9	2.2	16.7	8.5	5.5	6.6	7.5	2.7	2.6	7.2	6.3			
Scepter	0.5	1.5	1.8	2.7	3.3	1.9	13.0	4.6	1.4	4.2	2.0	4.9	0.1	4.3	4.8			
Scout	1.0	1.0	1.7	2.9	2.4	1.8	20.7	5.1	1.2	4.7	2.5	2.9	0.6	5.4	6.1			
Shield	0.7	2.0	3.3	3.1	3.8	2.6	20.2	7.2	1.0	5.0	1.4	6.4	1.2	6.0	7.1			
Tenfour	0.7	1.4	2.2	2.5	2.8	1.9	10.3	4.0	0.6	5.4	0.9	3.2	0.3	3.5				
Trojan	0.5	1.1	1.3	2.8	2.0	1.5	21.2	10.8	0.9	7.3	4.8	3.1	1.0	7.0	6.0			
Wyalkatchem	0.8	0.9	1.3	1.9	1.3	1.2	6.1	4.0	1.6	3.3	1.4	2.6	0.3	2.7	3.6			
Yitpi	0.8	1.0	1.7	2.0	0.6	1.2	12.6	6.0	0.8	5.2	5.2	2.5	0.7	4.7	4.9			



Wheat

2015 Durum variety performance for grain protein (% at 11% moisture) across NVT sites

	Mid North				Yorke Peninsula				All sites mean
	Mintaro	Spalding	Turretfield	mean	Paskeville	Urania	Wokurna	mean	
Caparoi	15.4	16.8	18.2	16.8	18.7	16.3	14.8	16.6	16.7
DBA-Aurora	14.9	15.7	16.6	15.7	16.7	15.1	13.1	15.0	15.3
Hyperno	15.1	16.2	17.1	16.1	17.5	16.2	14.4	16.0	16.1
Saintly	14.5	14.8	16.7	15.3	17.1	14.8	12.5	14.8	15.1
Tamaroi	15.4	15.8	16.3	15.8	16.8	15.8	13.1	15.2	15.5
Tjilkuri	15.8	15.8	17.7	16.4	17.6	15.3	13.9	15.6	16.0
WID802	14.8	16.6	17.2	16.2	17.3	15.3	13.5	15.4	15.8
Yawa	15.0	15.9	17.3	16.0	18.0	15.8	13.9	15.9	16.0

2015 Durum variety performance for test weight (kg/hl) across NVT sites

	Mid North				Yorke Peninsula				All sites mean
	Mintaro	Spalding	Turretfield	mean	Paskeville	Urania	Wokurna	mean	
Caparoi	82.72	78.70	81.37	80.93	78.58	83.02	80.55	80.72	80.82
DBA-Aurora	80.91	78.10	82.12	80.38	78.12	79.26	77.43	78.27	79.32
Hyperno	81.91	77.37	81.97	80.41	79.46	80.61	78.08	79.38	79.90
Saintly	82.09	79.34	83.00	81.47	75.65	79.89	78.58	78.04	79.76
Tamaroi	81.75	78.46	82.09	80.76	79.42	79.93	78.78	79.38	80.07
Tjilkuri	81.65	79.16	81.27	80.69	78.10	80.97	79.93	79.67	80.18
WID802	79.28	72.88	79.76	77.31	75.93	78.16	77.09	77.06	77.18
Yawa	81.15	77.07	82.07	80.09	80.17	80.13	79.20	79.83	79.96

2015 Durum variety performance for screenings (%) across NVT sites

	Mid North				Yorke Peninsula				All sites mean
	Mintaro	Spalding	Turretfield	mean	Paskeville	Urania	Wokurna	mean	
Caparoi	4.4	3.3	0.5	2.7	4.4	2.5	6.4	4.4	3.6
DBA-Aurora	8.6	5.4	4.1	6.0	7.8	6.1	8.5	7.5	6.7
Hyperno	7.7	11.6	2.4	7.2	8.9	8.3	19.0	12.1	9.6
Saintly	6.2	8.2	3.4	5.9	19.7	9.5	10.4	13.2	9.6
Tamaroi	9.4	12.0	3.2	8.2	7.8	5.2	6.0	6.4	7.3
Tjilkuri	4.9	4.4	3.2	4.2	4.9	4.5	4.2	4.5	4.3
WID802	12.6	17.4	8.6	12.8	14.0	7.9	8.3	10.1	11.5
Yawa	12.0	21.2	5.5	12.9	11.2	11.3	12.8	11.8	12.3