



HGCA RECOMMENDED LIST® WINTER WHEAT 2005/06

MARKET OPTIONS AND GRAIN QUALITY

	C		P2		C *		P2		P2		*	C		C		P1		P1		P2		P2		P1		P2		P2		C		C		*	Average LSD 5%
	X119	Malacca	Hereward	Einstein	Cordiale	Option	Solstice	Soissons	Robigus	Dickson	Deben	Nijinsky	Wizard	Claire	Consort	Riband	Glasgow	Ambrosia	Istabraq	Gladiator	Brompton +	Smuggler	Napier	Access	Richmond	Welford \$	Tanker	Savannah	Average LSD 5%						
End-use group	Nabim Group 1			Nabim Group 2				Nabim Group 3				Nabim Group 4																							
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	E&W	UK	UK	UK	UK	East	UK	UK	North	UK	UK	UK	UK	East	UK	UK	UK	UK	Specific	UK	UK							
UK treated yield (% control, 10.1 t/ha)	103	96	92	104	103	102	101	90	104	104	104	102	102	100	99	99	108	106	106	105	105	105	104	103	103	103	103	102							
Main market options (The specific attributes of varieties are different so, whenever possible, varieties should not be mixed in store)																																			
UK bread-making	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
UK biscuit, cake-making	-	-	-	-	-	-	-	-	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
UK starch/ distilling	-	-	-	-	-	-	-	-	Y	Y	(Y)	Y	Y	Y	Y	Y	Y	-	Y	-	-	-	-	-	-	-	-	-	-	-	-				
ukp, bread wheat for export	Y	Y	Y	Y	Y	-	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	?	-	-	-	-	-	-	-	-	-	-				
uks, soft wheat for export	-	-	-	-	-	-	-	-	Y	Y	-	Y	-	Y	Y	-	?	?	Y	-	-	-	-	-	-	-	-	-	-	-	-				
Year first listed	02	99	91	03	04	01	02	95	03	04	01	04	03	99	95	89	05	05	04	04	05	04	00	02	03	04	01	98							
Grain quality																																			
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard					
Protein content (%)	11.7	12.1	13.0	11.8	12.2	11.9	12.1	12.7	11.5	11.4	11.1	11.6	11.7	11.6	11.6	11.6	11.1	11.5	11.1	11.7	11.5	11.6	11.4	11.1	11.8	11.5	11.6	11.1	11.1	0.2					
Hagberg Falling Number	287	302	261	272	307	273	270	251	194	250	202	197	224	239	223	198	173	207	199	271	231	238	160	185	259	254	273	235	16						
Specific weight (kg/hl)	75.7	75.5	79.2	77.1	79.0	78.6	78.2	78.9	76.6	77.4	76.2	74.8	76.7	76.5	77.0	75.2	76.2	77.4	78.3	77.2	73.8	75.0	75.6	75.5	78.6	74.3	75.2	76.7	0.5						
1000 grain weight (g)	52.2	46.6	48.5	51.2	48.1	48.5	51.4	46.4	46.3	52.2	54.0	47.9	52.1	48.9	51.6	54.6	(45.9)	(53.9)	50.0	47.5	(51.3)	45.9	54.5	51.4	50.0	44.3	54.5	57.1	2.5						
Zeleny volume	42.9	46.8	52.4	(41.3)	48.8	47.9	45.5	55.6	(26.6)	28.0	27.4	29.5	(30.6)	24.6	22.8	18.8	-	-	15.2	27.2	-	54.2	22.9	18.3	43.3	26.0	24.4	22.4	7.2						
Chopin alveograph W	177	214	236	168	231	191	185	297	99	109	128	105	156	101	112	80	-	-	73	91	-	237	80	71	177	78	85	86	32.3						
Chopin alveograph P/L	0.8	0.9	0.6	0.5	0.6	1.6	0.9	0.8	0.3	0.4	0.8	0.3	0.5	0.4	0.3	0.6	-	-	0.3	0.8	-	1.3	1.3	1.7	1.3	1.1	1.8	2.2	0.42						

P1, P2 = first and second year of recommendation * = variety no longer in trial **C** = yield control
Y = suited to that market (Y) = may be suited to that market ? = further information required
 Average LSD (least significant difference) 5%. Varieties that are more than one LSD apart are significantly different at the 5% confidence level.
E&W = Recommended for dry (East) and wet (West) regions.
\$ = Welford is a specific recommendation for growers wanting a variety with proven genetic resistance to orange wheat blossom midge.
+ = Brompton is a specific recommendation for the East and for UK growers wanting a variety with proven genetic resistance to orange wheat blossom midge.
® = "HGCA RECOMMENDED LIST" is a registered trademark of the Home-Grown Cereals Authority.
Varieties no longer Listed: Charger, Equinox

ukp, bread wheat **uks**, soft wheat
W ≥ 170 **W** ≤ 120
P/L ≤ 0.9 **P/L** ≤ 0.55
Protein 11.0% - 13.0% **Protein** 10.5% - 11.5%
 These export brands have been designed to make it easier to market UK milling wheat overseas.
 For further information contact British Cereal Exports on 0207 520 3928, e-mail: bce@hgca.com



HGCA RECOMMENDED LIST® WINTER WHEAT 2005/06

YIELD, AGRONOMY AND DISEASE RESISTANCE

	C			P2		C *		P2		P2		*		C		C		P1		P1		P2		P2		P1		P2		P2		C		*		
	Xt19	Malacca	Hereward	Einstein	Cordiale	Option	Solstice	Soissons	Robigus	Dickson	Deben	Nijinsky	Wizard	Claire	Consort	Riband	Glasgow	Ambrosia	Istabraq	Gladiator	Brompton +	Smuggler	Napier	Access	Richmond	Welford \$	Tanker	Savannah	Average LSD							
End-use group	Nabim Group 1			Nabim Group 2				Nabim Group 3				Nabim Group 4																								
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	E&W	UK	UK	UK	UK	East	UK	UK	North	UK	UK	UK	UK	East	UK	UK	UK	UK	UK	Specific	UK	UK							
Fungicide treated grain yield (% treated control)																																				
United Kingdom (10.1 t/ha)	103	96	92	104	103	102	101	90	104	104	104	102	102	100	99	99	108	106	106	105	105	105	104	103	103	103	103	103	102	102	3.0					
North region (9.8 t/ha) #	100	97	89	104	103	102	99	88	103	104	103	99	101	98	100	101	105	105	106	106	103	103	105	106	103	100	103	104	3.9							
Dry (East) region (10.1 t/ha) #	104	96	93	104	102	100	101	90	106	104	104	104	103	102	99	98	110	106	106	105	108	106	104	104	103	105	102	102	2.5							
Wet (West) region (10.3 t/ha) #	103	96	92	105	103	101	102	90	105	105	104	104	101	102	99	97	107	108	106	106	105	105	103	102	104	102	103	101	2.9							
Untreated grain yield (% treated control in comparable trials)																																				
United Kingdom	80	77	77	86	81	82	81	74	87	80	85	82	77	81	73	68	85	86	85	84	82	88	81	79	83	81	78	77	4.5							
Agromomic features																																				
Resistance to lodging without PGR	5	7	8	7	8	6	8	6	7	8	4	8	7	6	8	7	4	8	5	6	7	4	7	8	7	9	8	8	1.4							
Resistance to lodging with PGR	7	8	9	8	9	7	9	7	8	8	6	8	8	7	9	8	6	9	7	8	8	6	8	9	9	9	9	8	1.0							
Height without PGR (cm)	98	86	88	87	82	89	95	90	90	91	95	86	83	90	87	91	86	88	95	84	83	94	84	81	85	79	83	88	1.0							
Ripening (days +/- Claire, -ve = early)	0	-1	+1	+1	-1	+1	+1	-4	+1	+1	+2	0	+2	0	+2	+2	0	0	+3	0	+1	+1	+1	+1	0	+1	+2	+2	0.7							
Resistance to sprouting	7	6	6	7	(6)	8	8	8	5	(6)	5	(3)	(5)	5	6	6	-	-	(5)	(6)	-	(7)	5	6	5	(7)	7	6	1.5							
Disease resistance																																				
Mildew	8	7	5	7	7	4	4	7	9	5	6	6	7	4	6	6	8	6	5	7	4	7	6	7	5	6	6	7	0.7							
Yellow rust	9	9	5	6	(5)	9	9	6	3	4	9	8	5	9	6	6	4	5	9	9	9	9	4	3	8	7	6	5	(1.0)							
Brown rust	8	7	6	6	4	5	5	3	9	4	5	7	9	8	4	3	8	8	7	8	6	7	8	8	9	6	5	8	(1.7)							
<i>Septoria nodorum</i>	6	7	7	6	(5)	6	7	6	8	(5)	7	(7)	6	8	5	4	(6)	(5)	(8)	(7)	(7)	(8)	7	6	7	(7)	6	5	-							
<i>Septoria tritici</i>	5	5	6	5	4	4	5	5	7	4	6	6	4	6	4	3	6	4	6	5	6	7	5	5	5	5	4	4	0.6							
Eyespot	4	4	5	6	5	6	4	3	5	4	6	5	6	5	6	5	5	5	5	5	5	4	5	4	4	7	6	4	1.7							
<i>Fusarium ear blight</i>	5	6	5	7	6	6	6	7	5	4	6	7	5	7	6	6	(5)	(3)	7	6	(7)	7	5	5	6	5	5	6	(2.5)							

P1, P2 = first and second year of recommendation * = variety no longer in trial

C = yield control

() = limited data. Bracketed LSDs are approximate

Average LSD (least significant difference) 5%. Varieties that are more than one LSD apart are significantly different at the 5% confidence level.

On the 1-9 scales high figures indicate that a variety shows the character to a high degree (eg high resistance).

= The regional yields include supplementary trials (2000 to 2001) which may not have received the full fungicide protocol. Comparisons of variety performance across regions are not valid.

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SUPPLEMENTARY DATA

	C			P2			C*			P2			P2			*			C			C			P1			P1			P2			P2			P1			P2			P2			C			*			P2			C			*		
	X119	Malacca	Hereward	Einstein	Cordiale	Option	Solstice	Soissons	Robigus	Dickson	Deben	Nijinsky	Wizard	Claire	Consort	Riband	Glasgow	Ambrosia	Istabraq	Gladiator	Brompton	Smuggler	Napier	Access	Richmond	Welford	Tanker	Savannah	Average LSD																															
End-use group	Nabim Group 1			Nabim Group 2			Nabim Group 3			Nabim Group 4																																																		
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	E&W	UK	UK	UK	UK	East	UK	UK	North	UK	UK	UK	UK	Specific	UK	UK	UK	UK	Specific	UK	UK	Average LSD																															
Breeder/ Agent																																																												
Breeder	Adv	CPB	RAGT	Nick	CPB	RAGT	Adv	Depr	CPB	Ceb	Nick	Nick	CPB	Nick	RAGT	RAGT	SU	RAGT	Nick	RAGT	Els	Adv	RAGT	CPB	Ceb	Els	Els	Adv																																
Agent	Adv	CPB	RAGT	Nick	CPB	RAGT	Adv	Els	CPB	Ceb	Nick	Nick	CPB	Nick	RAGT	RAGT	SU	RAGT	Nick	RAGT	Els	Adv	RAGT	CPB	Ceb	Els	Els	Adv																																
Annual yield (% control)																																																												
2000 treated (11.2 t/ha)	102	96	88	100	-	100	98	89	103	-	102	-	101	99	100	102	-	-	-	-	-	-	102	103	100	-	104	103	2.6																															
2001 treated (9.6 t/ha)	103	95	94	103	104	104	100	91	105	106	105	104	103	100	99	98	-	-	103	106	-	103	104	103	102	103	102	101	3.0																															
2002 treated (10.4 t/ha)	100	97	94	105	102	103	100	89	105	103	103	105	101	101	98	97	107	104	107	104	105	106	103	102	104	101	102	102	2.7																															
2003 treated (10.0 t/ha)	105	95	94	105	102	102	102	93	104	105	106	103	102	102	99	100	110	109	110	106	105	106	104	103	104	103	102	102	2.3																															
2004 treated (9.9 t/ha)	106	98	95	107	105	100	103	88	107	104	103	101	104	101	99	104	108	107	105	106	110	106	104	105	104	106	102	102	2.9																															
Rotational position																																																												
First cereal treated (10.5 t/ha)	103	96	93	104	102	101	101	90	107	104	104	104	101	102	99	99	109	106	106	105	108	105	103	103	103	104	103	102	2.5																															
Second and more treated (9.1 t/ha)	103	97	93	106	105	101	101	90	100	104	104	101	103	99	100	100	107	108	106	106	105	105	105	104	103	103	103	104	3.3																															
Sowing date (most trials were sown during October)																																																												
Before 6 Oct treated (10.1 t/ha)	102	96	92	104	102	102	101	89	104	104	104	103	102	101	99	101	108	105	106	106	109	106	104	104	103	103	102	102	3.1																															
Late autumn treated (9.6 t/ha)	104	98	~	104	103	100	100	~	106	104	103	103	102	101	100	-	-	-	110	106	-	108	101	103	106	104	101	-	6.1																															
Soil type (about 50% of trials are on medium soils)																																																												
Light soils treated (10.0 t/ha)	103	97	92	106	103	101	101	92	105	105	105	103	101	101	99	101	106	108	106	105	105	105	103	102	103	102	102	101	3.6																															
Heavy soils treated (10.5 t/ha)	104	96	93	103	103	101	101	89	105	104	103	102	102	100	99	98	106	106	105	105	110	105	105	104	103	105	103	102	3.5																															
Agronomic features																																																												
Lodging % without PGR	8.9	2.0	0.8	2.0	0.7	5.3	1.0	3.9	2.3	1.4	11.9	1.4	1.5	3.6	0.6	1.6	12.6	0.6	6.5	3.3	1.9	10.7	2.2	1.5	1.7	0.4	0.9	1.4																																
Lodging % with PGR	3.3	1.5	0.3	1.7	0.6	3.1	0.4	3.3	1.6	1.7	6.5	1.0	1.4	2.8	0.7	1.3	4.7	0.7	2.3	1.9	1.7	4.4	1.8	0.4	0.5	0.2	0.4	1.0																																
Latest safe sowing date	(End Feb)	End Jan	End Jan	(End Jan)	-	End Feb	(End Jan)	Mid Feb	(End Feb)	-	Mid Feb	-	(End Jan)	End Feb	End Jan	End Jan	-	-	-	-	-	-	End Jan	End Jan	-	-	End Jan	End Jan																																

All yields are taken from treated trials receiving a full fungicide and PGR programme ~ = See RL Plus for late-autumn data on Hereward and Soissons

Key to breeder/agent codes:
 Adv = Advanta Seeds UK (www.advantaseeds.co.uk) Els = Elsom's Seeds Ltd (www.elsoms.com)
 Ceb = Cebeco Seed Innovations Ltd (www.cebeco-seeds.co.uk) Nick = Nickerson (UK) Ltd (www.nickersonuk.com)
 CPB = CPB Twyford Ltd (www.cpb-twyford.co.uk) RAGT = RAGT Seeds Ltd (www.pbicseeds.co.uk)
 Depr = Maison Florimond Desprez, France SU = Saaten Union (enquiries@saaten-union.co.uk)

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