



HGCA RECOMMENDED LIST® WINTER WHEAT 2006/07

MARKET OPTIONS AND GRAIN QUALITY

	C		C		*		P1		*		C		C		P2		P1		P2		P2		P1		P1		*		*		*		*		Average LSD 5%	
	X119	Malacca	Hereward	Einstein	Cordiale	Option	Solstice	Mascot	Soissons	Robigus	Deben	Nijinsky	Wizard	Claire	Consort	Riband	Glasgow	Alchemy	Ambrosia	Istabraq	Brompton +	Gladiator	Gatsby \$	Hyperion #	Napier	Access	Richmond	Welford \$	Savannah							
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	UK	E&W	UK	UK	UK	East	UK	UK	North	UK	UK	UK	UK	East	UK	Spec	Spec	UK	UK	UK	Spec	UK							
UK treated yield (% control, 10.0 t/ha)	103	95	93	105	103	101	101	99	90	104	104	102	101	100	99	98	107	107	106	106	106	105	104	104	104	103	103	103	102			2.9				
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	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
UK biscuit, cake-making	-	-	-	-	-	-	-	-	-	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
UK starch/ distilling	-	-	-	-	-	-	-	-	-	Y	(Y)	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ukp bread wheat for export	Y	Y	Y	Y	Y	-	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
uks soft wheat for export	-	-	-	-	-	-	-	-	-	Y	-	Y	-	Y	Y	-	Y	Y	Y	Y	-	-	?	-	-	-	-	-	-	-	-	-	-	-		
Year first listed	02	99	91	03	04	01	02	06	95	03	01	04	03	99	95	89	05	06	05	04	05	04	06	06	00	02	03	04	98							
Grain quality																																				
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Hard	Hard	Soft	Soft	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard			
Protein content (%)	11.7	12.3	13.1	11.9	12.4	12.0	12.2	12.5	12.8	11.6	11.2	11.8	11.8	11.7	11.7	11.7	11.1	11.6	11.6	11.1	11.6	11.8	11.8	12.1	11.5	11.1	11.9	11.6	11.3	0.2						
Hagberg falling number	278	297	234	263	304	267	267	273	239	188	197	210	219	234	213	195	166	248	181	193	212	261	220	203	166	178	252	246	235	18						
Specific weight (kg/hl)	75.6	75.2	79.1	76.9	78.9	78.5	78.0	77.0	79.0	76.4	76.0	74.8	76.5	76.1	76.9	74.8	75.9	77.3	77.0	78.0	73.6	77.1	76.8	77.9	75.4	75.2	78.3	74.4	76.6	0.5						
1000 grain weight (g)	52.0	45.8	48.7	50.9	47.1	48.3	50.8	(51.4)	46.7	45.7	53.5	46.9	51.7	47.7	50.7	53.2	(45.2)	(48.7)	(53.2)	49.1	(50.6)	46.6	(43.1)	(50.6)	52.3	50.3	48.9	43.3	55.9	3.2						
Zeleny volume	47.3	50.0	58.5	43.9	51.8	49.3	51.6	(52)	59.5	(29)	29.3	31.6	(33)	26.2	24.5	21.8	(10)	10.0	(10)	17.5	(10)	29.5	18.8	18.1	24.5	21.2	46.0	28.3	23.7	7.9						
Chopin alveograph W	183	222	257	173	237	192	199	(240)	(300)	102	130	107	160	100	113	(87)	(94)	(60)	(69)	75	(79)	96	(76)	(95)	(88)	79	182	79	88	41						
Chopin alveograph P/L	0.8	0.7	0.6	0.4	0.5	1.4	0.7	(0.6)	(0.7)	0.2	0.6	0.2	0.4	0.3	0.3	(0.6)	(0.2)	(0.3)	(0.2)	0.2	(1.9)	0.7	(0.4)	(0.7)	(1.1)	1.6	1.3	1.0	2.0	0.5						

P1, P2 = first and second year of recommendation * = variety no longer in trials C = yield control (NB Tanker is also a yield control but has been withdrawn from the List)

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 and Gatsby are specific recommendations for growers wanting a variety with proven genetic resistance to orange wheat blossom midge.

= Hyperion is a specific recommendation for growers in situations where eyespot is a major risk

+ = 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: Dickson, Smuggler and Tanker

ukp bread wheat

W ≥ 170

P/L ≤ 0.9

Protein 11.0% - 13.0%

These export brands open market opportunities. They make it easy to market UK milling wheat overseas.

For further information contact British Cereal Exports on 020

7520 3928, e-mail: bce@hgca.com

or visit www.hgca.com/exports

The ukp and uks brands are registered trademarks of HGCA

uks soft wheat

W ≤ 120

P/L ≤ 0.55

Protein 10.5% - 11.5%



HGCA RECOMMENDED LIST® WINTER WHEAT 2006/07

YIELD, AGRONOMY AND DISEASE RESISTANCE

	C		C	*	P1		*	C	C	P2		P1	P2	P2		P1		P1	*	*	*	*	Average LSD							
	X119	Malacca	Hereward	Einstein	Cordiale	Option	Solstice	Mascot	Soissons	Robigus	Deben	Njinsky	Wizard	Claire	Consort	Riband	Glasgow	Alchemy	Ambrosia	Istabraq	Brompton +	Gladiator	Gatsby \$	Hyperion #	Napier	Access	Richmond	Welford \$	Savannah	Average LSD
End-use group	nabim Group 1			nabim Group 2				nabim Group 3				nabim Group 4											5%							
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	E&W	UK	UK	UK	East	UK	UK	North	UK	UK	UK	UK	East	UK	Spec	Spec	UK	UK	UK	Spec	UK	
Fungicide treated grain yield (% treated control)																														
United Kingdom (10.0 t/ha)	103	95	93	105	103	101	101	99	90	104	104	102	101	100	99	98	107	107	106	106	106	105	104	104	104	103	103	103	102	2.9
North region (9.6 t/ha)	102	97	(90)	105	102	102	100	98	(88)	103	104	99	101	97	100	100	105	105	105	106	105	106	102	103	105	105	103	101	105	3.7
Dry (East) region (10.2 t/ha)	104	95	93	104	102	100	100	99	89	105	104	102	102	100	99	96	109	106	106	105	107	104	103	103	104	103	102	104	100	2.8
Wet (West) Region (10.3 t/ha)	102	95	93	105	103	101	102	99	89	105	104	103	100	101	98	(95)	107	108	107	107	105	106	104	104	103	102	103	102	100	2.9
Untreated grain yield (% treated control in comparable trials)																														
United Kingdom	83	77	78	87	82	83	82	83	75	88	86	83	78	81	74	71	88	95	87	87	84	86	89	88	83	81	84	82	79	4.3
Agronomic features																														
Resistance to lodging without PGR	5	7	8	7	8	6	8	7	7	7	4	8	8	6	8	8	4	7	8	6	7	6	7	8	7	8	7	9	8	1.5
Resistance to lodging with PGR	7	8	9	8	9	7	9	8	7	8	6	8	8	7	8	8	7	9	8	7	8	8	9	8	8	9	8	9	8	1.0
Height without PGR (cm)	98	87	89	87	83	90	97	93	90	91	96	87	83	91	87	92	87	93	89	95	84	85	92	87	85	82	86	80	88	1.5
Ripening (days +/- Claire, -ve = early)	0	-1	+1	+1	-1	+1	+1	0	-3	+1	+2	0	+2	0	+3	+2	0	+2	0	+3	+1	0	+3	+1	+1	+2	+1	+1	+2	0.6
Resistance to sprouting	7	6	6	7	(6)	8	8	-	8	5	5	(3)	(5)	5	6	6	-	-	-	(5)	-	(6)	-	-	5	6	5	(7)	6	2.1
Disease resistance																														
Mildew	8	7	6	7	7	4	4	7	7	(8)	6	6	7	4	6	6	8	8	6	5	4	7	8	7	6	7	5	7	7	0.9
Yellow rust	9	9	5	6	5	9	9	6	6	3	9	8	5	9	6	6	4	9	5	9	9	9	9	6	4	3	8	7	5	0.9
Brown rust	8	7	6	6	4	5	5	6	4	9	4	6	8	6	3	3	7	5	8	5	8	8	8	9	8	8	9	7	8	(2.0)
<i>Septoria nodorum</i>	6	7	7	6	4	6	6	-	6	8	7	6	6	8	5	3	6	-	5	8	7	6	-	-	6	6	6	7	5	-
<i>Septoria tritici</i>	5	5	5	5	4	4	5	5	5	7	6	5	4	6	4	3	6	7	4	5	6	5	7	5	4	5	5	4	0.6	
Eyespot	4	4	5	6	5	7	4	6	3	5	6	5	6	5	6	5	5	6	5	6	6	5	5	7	5	4	4	8	4	1.7
<i>Fusarium</i> ear blight	5	6	5	7	6	6	6	-	7	5	6	7	5	7	6	6	(5)	-	(3)	7	(7)	6	-	-	5	5	6	5	6	(2.5)
Orange wheat blossom midge	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	R	-	-	-	R	-	R	-	-	-	-	R	-	

P1, P2 = first and second year of recommendation

* = variety no longer in trials

C = yield control (NB Tanker is also a yield control but has been withdrawn from the List)

() = 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 (e.g. high resistance).

R = believed to be genetically resistant to orange wheat blossom midge (OWBM) but this has not been verified in RL tests.

E&W = Recommended for dry (East) and wet (West) regions.

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SUPPLEMENTARY DATA

C C * P1 * C C P2 P1 P2 P2 P1 P1 * * * *

	X119	Malacca	Hereward	Einstein	Cordiale	Option	Solstice	Mascot	Soissons	Robigus	Deben	Njinsky	Wizard	Claire	Consort	Riband	Glasgow	Alchemy	Ambrosia	Istabraq	Brompton	Gladiator	Gatsby	Hyperion	Napier	Access	Richmond	Welford	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	UK	E&W	UK	UK	UK	East	UK	UK	North	UK	UK	UK	UK	East	UK	Spec	Spec	UK	UK	UK	Spec	UK		
Breeder/ Agent																															
Breeder	Adv	CPB	RAGT	Nick	CPB	RAGT	Adv	RAGT	Depr	CPB	Nick	Nick	CPB	Nick	RAGT	RAGT	SU	Nick	RAGT	Nick	Els	RAGT	Adv	Nick	RAGT	CPB	Inno	Els	Adv		
Agent	Adv	CPB	RAGT	Nick	CPB	RAGT	Adv	RAGT	Els	CPB	Nick	Nick	CPB	Nick	RAGT	RAGT	SU	Nick	RAGT	Nick	Els	RAGT	Adv	Nick	RAGT	CPB	Inno	Els	Adv		
Annual yield (% control)																															
2001 treated (9.6 t/ha)	103	96	94	103	104	103	100	-	91	106	105	105	103	100	99	98	-	-	-	103	-	106	-	-	104	103	102	104	101	2.9	
2002 treated (10.4 t/ha)	99	96	93	105	101	102	100	-	89	104	103	105	100	100	97	96	107	-	103	106	104	104	-	-	102	102	104	101	102	2.6	
2003 treated (10.2 t/ha)	104	94	93	105	101	101	101	99	92	103	105	102	101	101	99	99	110	106	108	109	104	105	102	104	104	102	103	102	2.4		
2004 treated (10.1 t/ha)	105	96	94	105	103	97	101	97	87	105	101	100	102	99	99	(102)	107	108	106	103	108	105	107	104	104	104	103	105	100	3.2	
2005 treated (9.8 t/ha)	106	94	90	104	103	-	102	100	90	105	106	101	-	99	99	100	108	106	107	107	107	105	103	104	104	107	102	104	-	2.3	
Rotational position																															
First cereal treated (10.5 t/ha)	104	95	93	104	102	101	101	99	90	106	104	103	101	101	98	98	108	107	106	106	107	105	104	103	103	103	103	104	101	2.5	
Second and more treated (9.1 t/ha)	103	96	94	106	104	100	101	97	90	100	103	100	102	98	99	99	107	105	108	106	105	106	103	105	104	103	102	103	103	2.9	
Sowing date (most trials were sown during October)																															
Before 6 Oct treated (10.0 t/ha)	103	95	93	104	102	101	101	98	89	105	104	102	102	100	99	99	107	108	105	106	107	106	104	104	104	104	103	103	101	2.4	
Late autumn treated (9.4 t/ha)	104	96	~	104	103	100	100	-	92	107	103	101	102	99	100	-	(110)	-	(109)	109	(108)	106	-	-	(102)	103	105	104	-	6.6	
Soil type (about 50% of trials are on medium soils)																															
Light soils treated (9.6 t/ha)	102	96	93	105	102	100	100	99	92	104	105	102	100	100	98	(98)	107	105	107	106	104	104	105	103	103	102	102	102	100	3.0	
Heavy soils treated (10.5 t/ha)	104	95	95	104	102	100	101	99	87	104	104	101	102	100	98	97	108	107	107	106	107	105	103	104	105	103	103	105	101	3.1	
Agronomic features																															
Lodging % without PGR	6.9	2.1	0.6	1.7	0.8	4.6	0.8	2.1	2.5	1.9	11.3	1.3	1.2	3.2	0.7	1.2	8.9	2.1	1.3	4.9	2.1	3.2	1.8	1.0	1.6	1.0	1.4	0.3	1.0		
Lodging % with PGR	3.4	1.2	0.4	1.5	0.3	3.6	0.2	0.8	2.5	1.6	7.2	1.0	1.3	2.5	0.7	1.4	4.3	0.4	0.8	2.3	1.4	1.5	0.4	1.2	1.5	0.2	0.7	0.1	0.8		
Latest safe sowing date #	End Feb	End Jan	End Jan	End Jan	(End Jan)	End Feb	End Jan	-	Mid Feb	End Feb	Mid Feb	End Jan	End Jan	End Feb	End Jan	End Jan	(End Feb)	-	(End Jan)	End Feb	(End Jan)	End Jan	-	-	End Jan	End Jan	End Jan	End Jan	End Jan		

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

Key to breeder/agent codes:

Adv = Advanta Seeds UK (www.advantaseeds.co.uk)

CPB = CPB Twyford Ltd (www.cpb-twyford.co.uk)

Depr = Maison Florimond Desprez, France

Els = Elsoms Seeds Ltd (www.elsoms.com)

Inno = Innoseeds Ltd (www.innoseeds.co.uk)

Nick = Nickerson (UK) Ltd (www.nickersonuk.com)

RAGT = RAGT Seeds Ltd (www.ragt.co.uk)

SU = Saaten Union (www.saaten-union.co.uk)

= Latest safe sowing date is the advised latest date to give a sufficient cold period for flowering.

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