

# HGCA Recommended List® Winter Wheat 2008/09

## MARKET OPTIONS AND GRAIN QUALITY



	C*					C		P2		P1		P2		C		*		C		*		*		*		P2		P1		P1		P2		*		C		*		P2		*		*		Average LSD (5%)		
	X19	Solstice	Mascot	Malacca	Hereward	Einstein	Battalion	Cordiale	Marksman	Soissons	Zebedee	Robigus	Deben	Claire	Nijinsky	Consort	Riband	Oakley	JB Diego	Duxford	Glasgow	Istabraq	Humber	Brompton +	Alchemy	Ambrosia	Gladiator	Timber &	Welford \$	Gatsby \$																		
<b>End-use group</b>	nabim Group 1					nabim Group 2					nabim Group 3					nabim Group 4																																
Scope of recommendation	East	UK	UK	UK	UK	UK	UK	UK	E&W	E&W	E&W	UK	UK	UK	UK	North	North	UK	UK	UK	UK	UK	UK	East	UK	UK	UK	UK	Sp	Sp	Sp	Sp																
UK treated yield (% control, 10.1 t/ha)	103	100	97	93	91	102	102	101	100	88	103	102	101	99	98	98	-	108	106	106	105	104	104	104	104	103	103	102	102	101	101																	
<b>Main market options (The specific attributes of varieties are different so, whenever possible, varieties should not be mixed in store)</b>																																																
UK bread-making	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
UK biscuit, cake-making	-	-	-	-	-	-	-	-	-	-	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
UK distilling	-	-	-	-	-	-	-	-	-	-	Y	Y	-	Y	Y	Y	Y	-	-	-	Y	Y	-	-	Y	-	-	-	-	-	-	-																
ukp bread wheat for export	Y	Y	[Y]	B	Y	B	[B]	Y	[B]	Y	-	-	-	-	-	-	-	-	-	?	-	-	-	-	-	-	-	[B]	-	-	-	-																
uks soft wheat for export	-	-	-	-	-	-	-	-	-	-	Y	Y	-	Y	B	Y	-	-	-	-	Y	Y	-	-	B	Y	-	-	-	-	-	-																
Year first listed	02	02	06	99	91	03	07	04	08	95	07	03	01	99	04	95	89	07	08	08	05	04	07	05	06	05	04	07	04	06																		
<b>Grain quality</b>																																																
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Hard	Hard	Hard	Soft	Soft	Hard	Hard	Soft	Soft	Hard	Hard	Hard	Soft	Hard	Hard																
Protein content (%)	11.8	12.3	12.6	12.5	13.2	12.2	12.4	12.6	13.0	13.0	11.6	11.8	11.4	12.0	12.0	11.8	11.8	10.9	11.3	11.4	11.4	11.2	12.0	11.7	11.8	11.9	12.0	12.6	11.8	11.8																		
Hagberg falling number	274	272	278	312	238	266	248	304	247	249	264	206	204	242	219	226	200	165	292	266	179	207	288	219	247	190	263	249	261	236																		
Specific weight (kg/hl)	75.9	78.4	77.3	75.3	79.0	77.2	76.0	79.3	77.0	79.3	74.4	76.5	75.7	76.3	74.7	76.8	74.3	75.5	77.4	76.2	76.5	78.2	76.8	73.6	77.3	76.8	77.1	77.5	74.4	76.6																		
1000 grain weight (g)	51.8	50.5	[51.5]	45.7	48.4	50.7	[50.2]	47.5	-	46.4	[49.3]	45.5	53.0	47.6	47.2	50.7	53.0	[48.5]	-	-	[44.7]	49.5	[51.0]	50.0	[49.1]	[53.1]	46.8	[47.0]	43.5	[43.6]																		
Zeleny volume	46.7	51.0	[51.7]	47.9	[58.1]	42.7	-	50.9	-	[59.3]	[22.6]	24.7	-	24.1	[29.2]	[23.5]	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
Chopin alveograph W	178	189	[231]	217	254	171	177	239	290	296	86	101	125	96	106	112	[83]	[120]	[220]	173	85	73	[103]	[77]	55	[72]	95	184	78	[78]																		
Chopin alveograph P/L	0.7	0.7	[0.7]	0.7	0.5	0.5	0.8	0.7	1.0	0.6	0.3	0.3	0.6	0.3	0.3	0.3	[0.4]	[0.5]	[1.8]	1.0	0.2	0.3	[1.0]	[2.1]	0.5	[0.3]	0.7	0.8	1.0	[0.4]																		

P1, P2 = first and second year of recommendation

\* = variety no longer in trials

C = yield control

[ ] = limited data

Y = suited to that market

[Y] = may be suited to that market

B = suitable for blending into export cargoes

[B] = may be suitable for blending into export cargoes

? = futher data required

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

UK = recommended to UK

\$ = Welford and Gatsby are specific recommendations for growers wanting a variety with resistance to orange wheat blossom midge

East = recommended for the dry (East) Region

+ = Brompton is a specific recommendation for the East and for UK growers wanting a variety with genetic resistance to orange wheat blossom midge

E&W = recommended for the dry (East) and wet (West) regions

~ = Riband has only been grown in North trials for several years so a UK mean cannot be given. For details of UK performance see RL Plus

Sp = specific recommendation

& = Timber is a specific recommendation for growers wanting good disease resistance. Isolates of yellow rust and mildew which can infect Timber have been found in the UK but so far disease levels have been low

Varieties no longer Listed: Access, Hyperion, Napier and Richmond

® = "HGCA RECOMMENDED LIST" is a registered trademark of HGCA



# HGCA Recommended List® Winter Wheat 2008/09

## SUPPLEMENTARY DATA

	RECOMMENDED					C*	C	P2	P1	P2	C	*	C	*	*	*	P2	P1	P1	P2	*	C	*	P2	*	*	Average LSD (5%)				
	Xi19	Solstice	Mascot	Malacca	Hereward	Einstein	Battalion	Cordiale	Marksman	Soissons	Zebedee	Robigus	Deben	Claire	Nijinsky	Consort	Riband	Oakley	JB Diego	Duxford	Glasgow	Isabraq	Humber	Brompton	Alchemy	Ambrosia	Gladiator	Timber	Welford	Gatsby	Average LSD (5%)
<b>End-use group</b>	nabim Group 1					nabim Group 2					nabim Group 3					nabim Group 4															
Scope of recommendation	East	UK	UK	UK	UK	UK	UK	UK	E&W	E&W	E&W	UK	UK	UK	UK	North	North	UK	UK	UK	UK	UK	UK	East	UK	UK	UK	Sp	Sp	Sp	
<b>Breeder/ UK contact</b>	Nick					Nick					Nick					Nick															
Breeder	Nick	Nick	RAGT	KWS	RAGT	Nick	RAGT	KWS	RAGT	Depr	Nick	KWS	Nick	Nick	Nick	RAGT	RAGT	KWS	Breun	NFC	SU	Nick	KWS	Els	Nick	RAGT	RAGT	SU	Els	Nick	
UK contact	Nick	Nick	RAGT	KWS	RAGT	Nick	RAGT	KWS	RAGT	Els	Nick	KWS	Nick	Nick	Nick	RAGT	RAGT	KWS	Sen	NFC	SU	Nick	KWS	Els	Nick	RAGT	RAGT	SU	Els	Nick	
<b>Annual yield (% control)</b>																															
2003 treated (10.4 t/ha)	102	100	97	93	[91]	103	-	100	-	[90]	106	101	103	99	101	97	[98]	-	-	-	107	107	-	102	104	106	103	-	101	100	2.5
2004 treated (10.5 t/ha)	102	99	94	93	[91]	102	103	101	-	[85]	99	102	99	97	97	96	-	107	-	-	104	100	104	105	105	103	102	101	102	104	3.5
2005 treated (1030 t/ha)	104	100	98	92	[89]	103	104	101	101	[89]	103	104	104	97	99	98	[99]	109	105	107	106	105	104	105	104	105	104	103	103	101	2.6
2006 treated (10.2 t/ha)	104	101	98	93	[93]	104	104	102	103	[98]	106	100	104	100	98	97	[100]	105	107	108	106	106	107	105	102	107	107	105	101	99	2.5
2007 treated (9.5 t/ha)	98	98	96	96	[87]	99	[94]	100	95	-	101	103	96	100	-	[107]	-	111	106	102	100	103	98	99	102	95	97	95	-	101	3.3
<b>Rotational position</b>																															
First cereal treated (10.5 t/ha)	102	100	97	93	90	102	100	100	99	88	103	103	101	99	98	96	100	108	106	105	104	104	103	104	104	103	102	101	101	101	1.7
Second and more treated (9.5 t/ha)	103	101	98	94	[92]	105	107	103	103	[89]	103	99	103	98	99	100	98	107	107	108	106	106	105	104	104	105	105	103	102	103	2.8
<b>Sowing date (most trials were sown during October)</b>																															
Before 6 Oct treated (10.3 t/ha)	102	99	96	94	90	102	101	101	98	87	103	102	102	99	98	97	99	108	106	105	104	104	103	104	104	103	104	100	101	101	2.0
Late autumn treated (9.2 t/ha)	104	99	97	92	-	102	[107]	101	-	95	103	104	100	97	96	97	-	[107]	-	-	108	106	[106]	105	105	107	104	[109]	101	[103]	5.5
<b>Soil type (about 50% of trials are on medium soils)</b>																															
Light soils treated (9.6 t/ha)	101	100	96	94	91	103	102	100	100	90	102	102	102	98	99	97	-	109	107	105	104	104	103	104	103	104	103	102	100	102	3.4
Heavy soils treated (10.8 t/ha)	103	100	98	93	[94]	102	103	102	101	[82]	103	102	101	99	99	97	[98]	107	108	106	105	104	105	104	104	103	103	102	103	101	2.4
<b>Agronomic features</b>																															
Lodging % without PGR	25	2	6	5	1	5	4	2	4	8	8	3	21	7	3	3	1	7	2	1	9	6	1	3	5	3	7	5	1	3	
Lodging % with PGR	13	1	2	4	1	4	2	1	2	5	11	3	12	5	3	3	5	5	2	1	6	5	1	3	2	2	3	2	1	2	
<b>Latest safe sowing date #</b>																															
End Feb	End	End	End	End	End	End	[End	End	-	Mid	End	End	Mid	End	End	End	End	[Mid	-	-	End	End	[End	End	Mid	Mid	End	[End	End	Mid	
Feb	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	-	Feb	Jan	Feb	Feb	Feb	Jan	Jan	Jan	Feb	-	-	Feb	Feb	Jan	Jan	Feb	Feb	Jan	Feb	Jan	Feb	
<b>Speed of development to growth stage 31 (days +/- average)</b>																															
Early Sep sown	-6	+3	-3	+3	-1	-3	+4	-2	-	-8	+2	-1	0	+4	+4	+3	+7	+2	-	-	-4	-4	+3	-1	+5	-4	-1	-6	-2	+4	+7
Early Oct sown	+1	+1	-5	0	-6	-4	-2	-7	-	-11	-4	-1	+1	+4	+3	+1	+2	+6	-	-	-6	+1	+5	+2	+4	-2	-2	0	0	0	+8
Early Nov sown	+3	0	-3	-1	-2	-3	-1	-2	-	-8	0	-1	+1	+2	+2	0	+2	+2	-	-	-1	-1	-1	0	+3	0	-1	-1	+3	+1	+4

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 and Riband

[ ] = limited data

### Key to breeder/UK contact codes:

Breun = Saatzucht Josef Breun, Germany  
 Depr = Maison Florimond Desprez, France  
 Els = Elsoms Seeds Ltd (www.elsoms.com)

KWS = KWS UK Ltd (www.kws.de)  
 NFC = New Farm Crops (www.newfarmcrops.co.uk)  
 Nick = Nickerson (www.nickersonseeds.co.uk)

RAGT = RAGT Seeds Ltd ( www.ragt.co.uk)  
 Sen = Senova Ltd (www.senova.uk.com)  
 SU = Saaten Union UK Ltd (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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