

HGCA Recommended List[®] late autumn sown wheat 2009/10

YIELD, GRAIN QUALITY, AGRONOMY AND DISEASE RESISTANCE

	*		*		C		*		C		C		P2		*		*		*		*		P2		P2		*						
	Xt19	Solstice	Mascot	Malacca	Paragon +	Hereward	Battalion	Einstein	Cordiale	Ashby +	Tybalt +	Marksman	Soissons	Robigus	Zebedee	Deben	Claire	Consort	Glasgow	Ambrosia	JB-Diego	Belvoir +	Oakley	Istabraq	Gladiator	Humber	Timber	Alchemy	Duxford	Gatsby	Zircon + \$	Average LSD (5%)	
Recommendation	nabim Group 1						nabim Group 2						nabim Group 3				nabim Group 4						Zircon + \$										
Scope of recommendation																							Zircon + \$	Sp									
UK yield as % treated control																																	
UK yield with fungicide (9.0t/ha)	107	105	98	95	95	[91]	106	106	106	103	102	[100]	97	109	106	[104]	101	100	111	111	[111]	111	110	110	108	108	107	105	[104]	[104]	[104]	103	9.3
Grain quality																																	
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Hard	Hard	Hard	Soft	Hard	Hard	Hard	Soft	Hard	Soft	Hard	
Protein content (%)	11.9	12.6	12.9	12.6	13.1	[13.6]	[12.5]	12.2	12.7	13.1	12.7	[12.7]	[13.2]	11.5	11.6	[11.2]	11.8	[11.7]	11.3	[12.0]	[11.6]	11.8	[11.2]	11.0	12.2	[11.8]	[12.2]	11.8	[11.7]	[12.0]	12.9	0.5	
Hagberg falling number	255	247	208	227	230	[212]	[162]	221	252	241	244	[209]	[215]	148	220	[148]	179	[159]	142	[164]	[262]	200	[136]	136	226	[257]	[214]	197	[209]	[179]	137	47	
Specific weight (kg/hl)	73.6	75.9	75.1	74.1	77.0	[77.3]	[72.8]	75.6	77.2	77.6	75.1	[74.6]	[77.9]	74.1	72.5	[73.9]	74.0	[75.2]	74.9	[75.3]	[74.9]	76.3	[73.3]	76.0	75.5	[74.9]	[74.5]	74.8	[72.6]	[74.5]	76.7	1.3	
Agromomic features																																	
Resistance to lodging with PGR	7	[9]	[8]	[8]	7	-	[9]	[9]	[9]	7	6	[7]	[9]	[9]	[7]	[8]	[8]	[8]	8	[9]	[8]	8	[8]	[8]	[9]	[9]	[9]	[8]	[9]	[9]	9	1.9	
Straw height with PGR (cm)	88	86	[84]	[79]	103	-	[82]	[80]	[76]	94	95	[80]	[85]	[82]	[84]	[86]	[83]	[80]	78	[80]	[85]	87	[78]	[88]	[76]	[79]	[81]	86	[88]	[85]	[89]	5.6	
Ripening (+/- Paragon, -ve = earlier)	[-1]	[-1]	[-1]	[-2]	[0]	-	[+1]	[+1]	[-3]	[0]	[-1]	[+1]	[-3]	[+2]	[+1]	[+2]	[-1]	[+1]	[0]	[-2]	[-1]	[-1]	[-1]	[+2]	[-1]	[0]	[-1]	[+2]	[0]	[+3]	[0]	3.5	
Latest safe sowing date #	End Feb	End Jan	End Jan	End Jan	End Jan	End Jan	End Jan	End Jan	End Jan	End Jan	-	-	[End Jan]	Mid Feb	End Jan	End Jan	Mid Feb	End Jan	End Feb	Mid Jan	[End Jan]	-	Mid Feb	End Feb	End Jan	End Jan	End Feb	Mid Feb	[End Feb]	Mid Feb	-		
Disease resistance																																	
Mildew	6	5	7	6	7	5	8	6	6	7	[9]	7	6	6	6	4	6	5	6	5	[7]	5	5	7	5	7	7	5	7	[8]			
Yellow rust	9	9	5	8	9	5	8	7	8	9	[7]	8	8	2	9	9	9	7	4	6	8	[9]	6	9	9	9	8	9	8	9	8		
Brown rust	6	3	4	6	7	4	8	5	3	6	9	8	4	7	3	4	5	3	4	7	3	8	6	4	7	6	9	3	4	8	7		
Septoria tritici	5	5	5	5	6	5	6	5	5	5	6	6	6	6	6	6	6	4	5	5	6	5	5	5	5	5	7	7	5	7	5		
Year first listed	02	02	06	99	99	91	07	03	04	01	03	08	95	03	07	01	99	95	05	05	08	03	07	04	04	07	07	06	08	06	07		

P2 = second year of listing

* = variety no longer in trials

C = yield control

Sp = Specific recommendation

[] = limited data

+ = spring wheat

\$ Zircon is specifically recommended as a white-grained wheat. nabim do not class it as a bread-making variety

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)

Data for winter wheat varieties is given for comparison only and do not constitute a Recommended List but the data are directly comparable with those for spring wheat

There are insufficient data to provide late autumn listings for newer winter wheat varieties and their absence from the table does not imply that they are unsuitable for late-autumn sowing

= latest safe sowing date is the advised latest date to give sufficient cold for flowering. Spring wheats have no vernalisation requirement

Variety no longer listed: Chablis

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SUPPLEMENTARY DATA



	*	*	*	C	*		C	C	P2	*	*	*	*	*		*	P2																*	
	X119	Solstice	Mascot	Malacca	Paragon	Hereward	Battalion	Einstein	Cordiale	Ashby	Tybalt	Marksman	Soissons	Robigus	Zebedee	Deben	Claire	Consort	Glasgow	Ambrosia	JB-Diego	Belvoir	Oakley	Isabraq	Gladiator	Humber	Timber	Alchemy	Duxford	Gatsby	Zircon	Average LSD (5%)		
Recommendation	nabim Group 1						nabim Group 2						nabim Group 3					nabim Group 4						Zircon	Average LSD (5%)									
Scope of recommendation																								Zircon	Sp									
Breeder/ UK contact																																		
Breeder	Nick	Nick	RAGT	KWS	RAGT	RAGT	RAGT	Nick	KWS	KWS	Wier	RAGT	Depr	KWS	Nick	Nick	Nick	RAGT	SU	RAGT	Bruen	KWS	KWS	Nick	RAGT	KWS	SU	Nick	Syn	Nick	KWS			
UK contact	Nick	Nick	RAGT	KWS	RAGT	RAGT	RAGT	Nick	KWS	KWS	Nick	RAGT	Els	KWS	Nick	Nick	Nick	RAGT	SU	RAGT	Sen	KWS	KWS	Nick	RAGT	KWS	SU	Nick	Syn	Nick	KWS			
Annual yield as % control																																		
2004 treated (9.5 t/ha)	[119]	[113]	-	[105]	[96]	-	-	[116]	[113]	[105]	[99]	-	-	[121]	-	[110]	[112]	[109]	[120]	[121]	-	[118]	-	[117]	[116]	-	-	-	-	-	-	[107]	8.5	
2005 treated (8.9 t/ha)	[109]	[102]	[100]	[96]	[96]	-	-	[106]	[105]	[104]	[100]	-	[93]	[109]	[108]	-	[96]	[102]	[113]	[110]	-	[112]	-	[110]	[110]	-	-	[111]	-	[106]	[102]	8.0		
2006 treated (8.9 t/ha)	[103]	[99]	[95]	[87]	[95]	-	[103]	[102]	[100]	[102]	[103]	-	[97]	[100]	[105]	[100]	[91]	[93]	[105]	[105]	-	[106]	[104]	[102]	[100]	[104]	[105]	[98]	-	[96]	[101]	9.6		
2007 treated (8.1 t/ha)	[91]	-	[85]	-	[93]	-	[96]	-	-	[99]	[108]	[90]	[89]	-	[87]	-	-	-	[97]	-	[97]	[100]	[97]	-	-	[96]	[98]	[92]	[88]	-	[102]	9.7		
2008 treated (9.1 t/ha)	[108]	[111]	[101]	-	[96]	[95]	[109]	[105]	[113]	[103]	[101]	[103]	-	[109]	[111]	-	[110]	-	[116]	-	[117]	[113]	[116]	[115]	[112]	[113]	[107]	[108]	[113]	-	[102]	7.7		
Agromomic features																																		
Lodging % with PGR	6	2	2	5	10	-	1	2	1	8	16	6	2	2	8	4	4	3	3	2	3	3	3	4	1	1	1	4	2	1	1.5			

All yields are taken from treated trials receiving a full fungicide and PGR programme

Key to breeder/agent codes:

Bruen = Saatucht Josef Bruen, Germany
 Depr = Maison Florimond Desprez, France
 Els = Elsom's Seeds Ltd (www.elsoms.com)
 KWS = KWS UK (www.kws-uk.com)

Nick = Nickerson (www.nickersonseeds.co.uk)
 RAGT = RAGT Seeds (www.ragt.co.uk)
 Sen = Senova (www.senova.uk.com)

SU = Saaten Union (www.saaten-union.co.uk)
 Syn = Syngenta Seeds (www.newfarmcrops.co.uk)
 Wier = Landbouwbureau Wiersum BV

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