



# HGCA RECOMMENDED LIST WINTER BARLEY 2004/05

## MARKET OPTIONS AND GRAIN QUALITY

	C	P1	C	*	*	P2	P1		C	*	*	*	C	*	P1	C	P2		Average LSD (5%)	
	Pearl	Aquarelle	Regina	Vanessa	Fanfare	Cannock	Camion	Scylla	Carat	Haka	Sumo	Pastoral	Antonia	Jewel	Heligan	Colossus \$	Siberia	Sequel	Pict	
Variety type	Two-row malting					Two-row feed										Six-row feed				
Scope of recommendation	UK	East	UK	E&W	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	UK	N & W	UK	UK	UK	
UK treated yield as % control (8.0 t/ha)	99	98	97	97	96	103	103	101	101	100	99	99	98	97	95	111	107	106	105	3.1
Main market options																				
loB malting approval in the South	F		F		F															
loB malting approval in the North	F																			
Under test for loB approval		(Y)																		
BCE guide to overseas malting	Y		Y	Y																
Pearling							?		(Y)	Y				Y					?	
Year first listed	99	04	96	00	95	03	04	02	02	01	01	89	00	98	99	04	00	03	02	
Grain quality																				
Specific weight (kg/hl)	70.0	64.8	68.6	69.9	71.3	66.3	70.8	69.6	71.1	71.0	68.6	69.3	69.7	70.1	70.2	66.6	63.3	69.8	70.2	0.9
Sieving % through 2.25 mm	1.6	4.4	2.5	1.3	2.9	3.6	1.9	2.0	0.6	1.4	3.4	2.6	1.6	1.8	1.8	4.5	3.1	4.9	8.4	1.5
Sieving % through 2.5 mm	4.9	12.4	8.1	3.3	9.3	10.3	6.5	8.4	2.2	3.8	12.1	8.2	5.1	5.1	5.7	15.9	12.2	16.8	25.7	3.2
Nitrogen content (%)	1.6	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.8	1.7	1.7	1.7	-	1.6	1.6	1.5	0.08

P1, P2 first and second year of recommendation

F = Full loB approval

? = Further information required

\* Variety no longer in trials

Y = Suited to that market

C = Yield control

(Y) = May be suited to that market

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

\$ Colossus is a hybrid barley and is recommended for the North and West regions

E&W = Recommended for the dry (East) and wet (West) Regions



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## YIELD, AGRONOMY AND DISEASE RESISTANCE

	C	P1	C	*	*	P2	P1	C	*	*	*	C	*	P1	C	P2					
	Pearl	Aquarelle	Regina	Vanessa	Fanfare	Cannock	Camion	Scylla	Carat	Haka	Sumo	Pastoral	Antonia	Jewel	Heligan	Colossus	Siberia	Sequel	Pict	Average LSD (5%)	
Variety type	Two-row malting					Two-row feed										Six-row feed					
Scope of recommendation	UK	East	UK	E&W	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	UK	N & W	UK	UK	UK		
<b>Grain yield as % treated control</b>																					
UK with fungicide (8.0 t/ha)	99	98	97	97	96	103	103	101	101	100	99	99	98	97	95	111	107	106	105	3.1	
North region with fungicide (8.4 t/ha) #	99	98	99	97	96	104	105	103	100	99	99	99	98	97	95	112	106	105	104	4.2	
Dry (East) region with fungicide (8.2 t/ha) #	99	100	97	99	97	103	103	100	100	101	100	99	99	97	95	108	107	106	105	3.4	
Wet (West) region with fungicide (7.8 t/ha) #	99	96	96	97	97	102	103	100	102	99	98	98	98	97	95	114	107	106	106	3.1	
<b>Untreated yield as % of treated control in comparable trials</b>																					
UK without fungicide	79	72	74	76	78	78	81	78	77	81	75	74	81	77	74	83	85	84	83	4.3	
<b>Agronomic features</b>																					
Resistance to lodging	7	7	8	7	6	7	8	8	8	8	7	7	7	7	8	6	9	7	6		
Straw height (cm)	103	92	97	98	94	98	93	90	88	96	95	94	103	92	96	112	94	110	107	3	
Ripening (+/- Pearl, -ve = earlier)	0	-1	0	-1	-1	+1	-2	-2	-3	-2	-0	-2	-1	-2	-2	-2	-4	-3	-3	0.8	
Winter hardiness	5	-	7	7	7	(4)	-	(7)	(5)	7	5	(7)	6	4	5	-	5	(6)	(7)	2.2	
<b>Disease resistance</b>																					
Mildew	7	6	3	8	6	2	5	6	7	8	7	2	5	6	3	5	7	8	7	1.4	
Yellow rust	6	3	2	3	7	8	7	6	5	7	5	8	6	8	5	4	4	5	6	1.4	
Brown rust	6	4	7	3	8	5	5	7	5	7	8	7	7	6	5	2	5	5	7	0.9	
<i>Rhynchosporium</i>	7	8	6	8	7	8	7	6	7	5	5	7	8	8	7	8	7	8	8	(0.7)	
Net blotch	5	8	5	7	7	8	8	8	7	7	8	7	8	6	6	7	4	6	6	(1.5)	
BaYMV	R					R					R					R					

C = Yield control

\* Variety no longer in trials

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

R = resistant to BaMMV and to BaYMV strain 1

Average LSD (least significant difference) 5%. Varieties that are more than one LSD apart are significantly different at the £ ( ) Limited data. Bracketed LSDs are approximate

# The regional yields include supplementary trials (1999 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	P1	C	*	*	P2	P1	C	*	*	*	C	*	P1	C	P2				
	Pearl	Aquarelle	Regina	Vanessa	Fanfare	Cannock	Camion	Scylla	Carat	Haka	Sumo	Pastoral	Antonia	Jewel	Heligan	Colossus	Siberia	Sequel	Pict	Average LSD (5%)
Variety type	Two-row malting					Two-row feed							Six-row feed							
Scope of recommendation	UK	East	UK	E&W	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	UK	N & W	UK	UK	UK	
Breeder/ Agent																				
Breeder	Nick	CPB	Bre	Bre	Adv	Nick	CPB	CPB	Nick	CPB	NFC	Sec	Sec	Nick	CPB	NFC	Sec	NFC	CPB	
Agent	Nick	CPB	BSH	Bcar	Adv	Nick	CPB	CPB	Nick	CPB	NFC	Nick	Adv	Nick	CPB	NFC	Dal	NFC	CPB	
Annual yields as % treated control																				
1999 treated yield (8.4 t/ha)	98	-	97	96	95	-	-	99	101	97	101	99	97	98	94	-	106	-	107	2.8
2000 treated yield (8.5 t/ha)	98	-	96	96	97	104	-	103	104	99	99	97	97	96	95	-	107	106	108	2.9
2001 treated yield (7.6 t/ha)	96	105	96	98	100	107	104	100	102	100	100	100	100	99	97	117	107	109	106	4.3
2002 treated yield (7.7 t/ha)	100	93	96	98	95	101	103	101	101	101	97	99	98	96	94	107	107	107	105	3.4
2003 treated yield (7.8 t/ha)	102	99	98	98	-	105	105	102	98	101	99	98	-	96	-	112	106	105	102	2.7
Soil type (about 50% of trials are medium soils)																				
Light soils (7.8 t/ha)	98	98	97	98	97	104	104	101	101	100	100	99	99	97	95	112	107	107	105	3.5
Heavy soils (8.4 t/ha)	99	99	97	97	96	102	100	101	102	99	99	98	98	97	95	106	106	105	104	3.6
Malting quality																				
Hot water extract (l deg/kg)	306.4	306.9	304.9	304.7	307.1	300.2	301.5	299.3	302.9	299.1	300.8	295.4	295.1	300.1	295.6	-	290.5	301.3	297.8	2.90

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

#### Key to breeder/agent codes:

Adv = Advanta Seeds UK Ltd ([www.advantaseeds.co.uk](http://www.advantaseeds.co.uk))

Bcar = Banks Cargill Agriculture Ltd ([www.bankscargill.co.uk](http://www.bankscargill.co.uk))

Bre = Breun, Germany

BSH = British Seed Houses Ltd ([www.britishseedhouses.com](http://www.britishseedhouses.com))

CPB = CPB Twyford Ltd ([www.cpb-twyford.co.uk](http://www.cpb-twyford.co.uk))

Dal = Dalgety Arable Ltd ([www.dalgety.co.uk](http://www.dalgety.co.uk))

NFC = New Farm Crops, Syngenta Seeds Ltd ([www.newfarmcrops.co.uk](http://www.newfarmcrops.co.uk))

Nick = Nickerson (UK) Ltd ([www.nickersonuk.com](http://www.nickersonuk.com))

Sec = Secobra, France