



# HGCA RECOMMENDED LIST® SPRING BARLEY 2006

## MARKET OPTIONS AND GRAIN QUALITY

	P2	P1	P2	C	P2		C	C		P2	P2	P2	P2		*	*	C	C	Average LSD (5%)		
	NFC Tipple	Appaloosa	Oxbridge	Cocktail	Westminster	Troon	Cellar	Chalice	Optic	Decanter	Waggon	Wicket	Tocada	Power	Doyen	Spire	Rebecca	Kirsty	Static	Riviera	
<b>End-use group</b>	<b>Malting varieties</b>										<b>Feed varieties</b>										
Scope of recommendation	UK	NE	UK	UK	UK	NE	UK	North	UK	North	UK	UK	UK	UK	UK	UK	North	NW	UK	UK	
UK Treated yield as % control (6.8 t/ha)	107	106	104	104	104	101	99	98	98	96	110	109	108	105	105	104	102	102	100	99	3.1
<b>Main market options</b>																					
IoB malting approval for brewing use	P	-	-	F	P	-	F	F	F	F	-	-	-	-	-	-	-	-	-	-	
IoB malting approval for distilling use	-	-	P	F	-	F	-	-	F	F	-	-	-	-	-	-	-	-	-	-	
Under test for IoB approval	-	(Y)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCE guide to overseas malting	-	-	-	(Y)	-	(Y)	(Y)	(Y)	Y	(Y)	-	-	-	-	-	-	-	-	-	-	
Year first listed	05	06	05	03	05	03	01	98	95	99	05	05	05	05	04	02	04	03	99	95	
<b>Grain quality</b>																					
Specific weight (kg/hl)	68.9	68.2	70.0	69.9	70.7	69.4	69.3	68.9	70.2	69.9	68.2	69.1	68.4	69.5	69.2	67.5	67.1	70.1	68.8	71.2	0.6
Sieving % through 2.25 mm	2.6	3.4	1.9	3.5	2.1	2.0	2.3	3.1	3.0	4.3	3.0	2.7	2.8	3.2	2.6	2.8	3.7	4.3	2.4	2.3	0.9
Sieving % through 2.5 mm	7.3	10.5	4.9	11.1	6.0	5.7	6.6	8.8	9.5	12.7	6.9	7.0	6.0	8.3	7.3	7.2	9.4	11.5	8.0	5.8	2.2
Nitrogen content (%)	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.6	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	-	1.6	1.6	1.6	0.05

P1, P2 = first and second year of recommendation

\* = no longer in trials

C = yield control

Y = suited to that market

(Y) = may be suited to that market

F = Full IoB approval

P = Provisional IoB approval

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

NE = Specific recommendation for the North East region

NW = Specific recommendation for the North West region

Varieties marked "North" are recommended for both the North West and North East regions.

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Varieties no longer Listed:

Prestige, Carafe



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## YIELD, AGRONOMY AND DISEASE RESISTANCE

	P2	P1	P2	C	P2		C		C		P2	P2	P2	P2		*	*	C	C	Average LSD (5%)	
	NFC Tipple	Appaloosa	Oxbridge	Cocktail	Westminster	Troon	Cellar	Chalice	Optic	Decanter	Waggon	Wicket	Tocada	Power	Doyen	Spire	Rebecca	Kirsty	Static	Riviera	
End-use group	Malting varieties										Feed varieties										
Scope of recommendation	UK	NE	UK	UK	UK	NE	UK	North	UK	North	UK	UK	UK	UK	UK	UK	North	NW	UK	UK	
<b>Fungicide treated grain yield as % treated control</b>																					
UK with fungicide (6.8 t/ha)	107	106	104	104	104	101	99	98	98	96	110	109	108	105	105	104	102	102	100	99	3.1
North East region with fungicide (7.0 t/ha)	107	109	105	104	105	100	98	98	99	97	110	107	110	107	105	103	107	103	99	100	3.0
North West region with fungicide (6.7 t/ha)	104	(104)	101	103	103	98	98	99	97	96	108	105	108	105	102	102	102	102	100	102	4.5
Dry (East) region with fungicide (6.8 t/ha)	108	108	106	105	105	103	101	98	97	96	110	110	108	104	105	104	99	100	100	97	4.0
Wet (West) region with fungicide (6.7 t/ha)	107	100	104	104	101	102	101	98	97	96	108	110	108	104	106	105	97	101	101	98	3.4
<b>Untreated grain yield as % treated control in comparable trials</b>																					
UK without fungicide	92	91	92	90	95	91	86	83	78	85	96	93	88	97	94	87	90	89	89	89	4.8
<b>Agronomic features</b>																					
Resistance to lodging	9	9	9	9	8	8	8	8	8	9	9	9	9	8	9	9	8	8	9	7	
Straw height (cm)	67	73	73	70	84	74	70	73	75	75	74	64	79	72	71	73	82	74	76	82	2.1
Ripening (+/- Optic, -ve = earlier)	0	0	-1	-1	0	-1	-1	-2	0	-1	-2	-1	-2	-2	-1	0	-1	-1	-1	-2	0.6
Resistance to brackling	8	8	8	9	7	7	5	6	5	8	8	9	7	5	8	6	4	8	7	8	0.9
<b>Disease resistance</b>																					
Mildew	9	8	7	7	9	9	9	9	5	9	9	7	6	8	7	6	7	7	9	8	0.5
Yellow rust	3	8	4	3	6	8	4	7	8	8	6	6	3	7	3	5	3	4	5	5	1.6
Brown rust	8	6	6	7	5	5	7	4	6	5	8	7	4	6	6	5	5	8	7	5	1.7
<i>Rhynchosporium</i>	4	4	7	5	8	4	4	5	4	6	4	6	4	6	8	4	7	4	5	5	0.8
BYDV	-	-	-	(8)	-	(8)	7	7	7	6	-	-	-	-	-	8	-	(6)	-	5	(2.2)

P1, P2 = first and second year of recommendation

\* = no longer in trials

C = yield control

() = Limited data. BYDV ratings in brackets are from 1 or 2 sites only.

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).

Comparisons of variety performance across regions are not valid.

NE = Specific recommendation for the North East region

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## SUPPLEMENTARY DATA

	P2	P1	P2	C	P2		C		C		P2	P2	P2	P2		*		*	C	C	Average LSD (5%)
	NFC Tipple	Appaloosa	Oxbridge	Cocktail	Westminster	Troon	Cellar	Chalice	Optic	Decanter	Waggon	Wicket	Tocada	Power	Doyen	Spire	Rebecca	Kirsty	Static	Riviera	
End-use group	Malting varieties										Feed varieties										
Scope of recommendation	UK	NE	UK	UK	UK	NE	UK	North	UK	North	UK	UK	UK	UK	UK	UK	North	NW	UK	UK	
<b>Breeder/ Agent</b>																					
Breeder	NFC	Adv	Nick	NFC	Nick	Nick	NFC	NFC	NFC	Nick	NFC	NFC	Loch	Sej	NFC	RAGT	Nord	Nord	NFC	RAGT	
Agent	NFC	Adv	Nick	NFC	Nick	Nick	NFC	NFC	NFC	Nick	NFC	NFC	CPB	Adv	NFC	RAGT	SU	SU	NFC	RAGT	
<b>Grain yield as % treated control</b>																					
2001 treated (6.4 t/ha)	-	-	-	104	-	101	99	99	101	96	-	-	-	-	104	103	104	103	99	97	3.0
2002 treated (6.6 t/ha)	108	-	106	104	104	102	100	98	96	97	113	110	110	109	105	102	100	101	101	100	3.2
2003 treated (7.4 t/ha)	105	104	106	104	104	101	98	97	97	96	108	106	108	107	106	106	102	103	100	101	3.1
2004 treated (6.8 t/ha)	109	113	104	104	105	101	100	99	98	(98)	109	110	109	104	105	105	109	102	100	98	2.8
2005 treated (7.0 t/ha)	105	102	101	104	103	100	98	98	99	94	108	106	106	102	104	103	99	101	100	99	2.7
<b>Agonomic features</b>																					
Lodging % without PGR	1.6	0.8	0.8	1.0	2.5	3.3	2.3	2.0	1.3	0.9	0.9	0.2	1.1	2.6	0.6	1.2	1.6	2.4	1.3	4.9	
Lodging % with PGR	0.5	0.3	0.5	0.5	4.6	2.4	2.0	1.2	1.4	0.7	0.7	0.5	0.9	3.0	0.7	0.6	0.9	1.1	1.0	3.5	
<b>Malting quality</b>																					
Hot water extract (l deg/kg)	313.9	312.8	315.8	313.8	317.7	314.8	315.2	312.0	313.1	311.7	312.7	312.5	310.4	313.2	312.9	310.6	-	309.2	306.9	309.7	1.8

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 ([www.advantaseeds.co.uk](http://www.advantaseeds.co.uk))  
 CPB = CPB Twyford Ltd ([www.cpb-twyford.co.uk](http://www.cpb-twyford.co.uk))  
 Loch = Lochow-Petkus, Germany

NFC = New Farm Crops ([www.newfarmcrops.co.uk](http://www.newfarmcrops.co.uk))  
 Nick = Nickerson (UK) Ltd ([www.nickersonuk.com](http://www.nickersonuk.com))  
 Nord = Nordsaat, Germany

RAGT = RAGT Seeds Ltd ( [www.ragt.co.uk](http://www.ragt.co.uk))  
 Sej = Sejet, Denmark  
 SU = Saaten Union ([www.saaten-union.co.uk](http://www.saaten-union.co.uk))

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