



HGCA

RECOMMENDED LIST SPRING BARLEY 2003
MARKET OPTIONS AND GRAIN QUALITY

	P1	P1	C	P1	C	C		P2	P1	C	C	
	Cocktail	Troon +	Cellar	Prestige *	Optic	Chalice	Decanter	Spire	Kirsty	Static	Riviera	Average LSD (5%)
End-use group	Malting varieties							Feed varieties				
Scope of recommendation	UK	UK	UK	Specific	UK	North	North	UK	N West	UK	UK	
UK Treated yield as % control (6.8 t/ha)	106	102	101	100	99	99	97	105	103	102	99	3.0
Main market options #												
loB malting approval in the South	P	P	F		F							
loB malting approval in the North	P	P			F	F	F					
Under test for loB approval												
BCE guide to overseas malting	Y	Y	Y	Y	Y	Y	Y					
Year first listed	03	03	01	03	95	98	99	02	03	99	95	
Grain quality												
Specific weight (kg/hl)	69.3	68.4	68.6	69.1	69.3	67.8	68.7	66.2	68.7	67.7	70.3	0.6
Sieving % through 2.25 mm	3	1	2	2	3	3	4	3	4	2	2	0.8
Sieving % through 2.5 mm	9	5	6	5	9	8	12	7	11	7	6	2.0
Nitrogen content (%)	1.5	1.6	1.6	1.7	1.5	1.6	1.6	1.5	1.6	1.6	1.6	0.04

P1, P2 first and second year of recommendation

F = Full loB approval

(Y) = May be suited to that market

C = Yield control

P = Provisional loB approval

Y = Suited to that market

Average LSD 5%. Varieties that are more than one LSD apart are significantly different at the 5% confidence level.

+ Troon was called Thetford

* Prestige is recommended for export for malting

Table updated July 2003 to include new information on loB and BCE market options



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YIELD AGRONOMY AND DISEASE RESISTANCE

	P1	P1	C	P1	C	C		P2	P1	C	C	Average LSD (5%)
	Cocktail	Troon +	Cellar	Prestige	Optic	Chalice	Decanter	Spire	Kirsty	Static	Riviera	
End-use group	Malting varieties							Feed varieties				
Scope of recommendation	UK	UK	UK	Specific	UK	North	North	UK	N West	UK	UK	
Fungicide treated grain yield as % treated control												
United Kingdom (6.8 t/ha)	106	102	101	100	99	99	97	105	103	102	99	3.0
North East region (6.7 t/ha) #	106	102	100	100	101	100	98	104	105	101	98	3.0
North West region (6.8 t/ha) #	105	99	100	100	98	100	97	102	105	102	99	4.4
Dry (East) region (7.2 t/ha) #	106	105	102	101	98	98	98	105	102	102	99	3.4
Wet (West) Region (6.4 t/ha) #	107	103	100	97	99	98	98	106	101	103	100	4.3
Untreated grain yield as % treated control in comparable trials												
United Kingdom	89	89	85	85	78	79	82	84	87	89	84	5.1
Agronomic features												
Resistance to lodging	9	8	8	8	8	8	9	9	8	8	8	2.6
Straw height (cm)	70	74	70	72	76	71	75	74	75	75	82	2.1
Ripening (+/- Optic, -ve = earlier)	-1	-1	-1	-1	0	-2	-1	0	-1	-1	-2	0.67
Resistance to brackling	8	7	5	7	5	6	8	6	8	7	8	
Disease resistance												
Mildew	8	9	9	9	7	9	9	8	9	9	9	0.4
Yellow rust	4	8	4	3	8	8	8	5	5	5	6	1.9
Brown rust	8	6	8	8	7	5	6	6	8	8	5	(2.0)
<i>Rhynchosporium</i>	5	5	5	5	4	5	5	5	5	5	5	(1.0)
BYDV	(8)	(8)	7	(6)	7	7	6	8	(6)	8	5	(2.2)

BYDV ratings in brackets are from 1 or 2 sites only

() = Limited data

On the 1-9 scales high figures indicate that a variety shows the character to a high degree

C = Yield control

Average LSD 5%. Varieties that are more than one LSD apart are significantly different at the 5% confidence level. () bracketed LSDs are approximate

The regional yields include supplementary trials (1997 to 2001) which may not have received the full fungicide protocol. Comparisons of variety performance across regions are not valid.

+ Troon was called Thetford



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**RECOMMENDED LIST SPRING BARLEY 2003
SUPPLEMENTARY DATA**

	P1	P1	C	P1	C	C		P2	P1	C	C	
	Cocktail	Troon +	Cellar	Prestige	Optic	Chalice	Decanter	Spire	Kirsty	Static	Riviera	Average LSD (5%)
End-use group	Malting varieties							Feed varieties				
Scope of recommendation	UK	UK	UK	Specific	UK	North	North	UK	N West	UK	UK	
Breeder/ Agent												
Breeder	NFC	Nick	NFC	Mon	NFC	NFC	Nick	Mon	Nord	NFC	Mon	
Agent	NFC	Nick	NFC	Mon	NFC	NFC	Nick	Mon	SU	NFC	Mon	
Annual yields as % treated control												
1998 Treated (6.6 t/ha)	*	*	97	97	96	99	97	*	*	104	103	3.7
1999 Treated (7.3 t/ha)	*	*	102	99	100	99	98	104	*	102	97	3.0
2000 Treated (7.4 t/ha)	108	103	102	101	100	98	98	107	104	102	98	2.9
2001 Treated (6.3 t/ha)	105	102	100	*	101	100	97	105	104	100	98	4.1
2002 Treated (6.4 t/ha)	106	104	100	101	97	98	98	104	102	102	102	2.6
Agronomic features												
Lodging % without PGR	0	1	1	1	2	2	1	1	2	1	2	
Lodging % with PGR	1	2	1	1	2	1	1	1	1	1	2	
Brackling % with PGR	1	10	18	7	19	11	1	12	4	8	5	3.2
Brackling % without PGR	13	24	40	22	46	32	9	30	18	22	20	4.5
Malting quality												
Hot water extract (l deg/kg)	313.0	314.0	315.3	311.7	312.9	311.5	311.4	310.1	308.7	307.1	308.9	2.0

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

Key to breeder/agent codes:

Mon = Monsanto, PBIC Seeds (www.monsanto-ag.co.uk)

NFC = New Farm Crops (www.syngenta-crop.co.uk)

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

Nord = Nordsaat Saatucht, Germany

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