



HGCA RECOMMENDED LIST® WINTER BARLEY 2005/6

MARKET OPTIONS AND GRAIN QUALITY

Table updated June 2005 to show revised loB approvals

| | P1 | C | * | | P1 | P1 | P2 | C | | C | * | * | * | C | * | P2 | C | | P1 | Average LSD (5%) | | |
|--|-----------------|----------|----------|----------|--------------|----------|----------|---------|--------|------------|----------|------|----------|----------|-------|--------------|---------|----------|------|------------------|-------|------|
| | Flagon | Pearl | Vanessa | Fanfare | Saffron | Spectrum | Camion | Cannock | Scylla | Carat | Haka | Sumo | Pastoral | Regina | Jewel | Colossus \$ | Siberia | Sequel | Pict | Amarena | | |
| Variety type | Two-row malting | | | | Two-row feed | | | | | | | | | | | Six-row feed | | | | | | |
| Scope of recommendation | UK | UK | E&W | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | North | UK | UK | N&W | UK | UK | UK | North | |
| UK treated yield as % control (8.2 t/ha) | 102 | 98 | 96 | 96 | 106 | 102 | 102 | 102 | 100 | 99 | 99 | 97 | 97 | 96 | 95 | 110 | 105 | 105 | 104 | 103 | | 2.9 |
| Main market options | | | | | | | | | | | | | | | | | | | | | | |
| loB malting approval for brewing use | P | F | - | F | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| loB malting approval for distilling use | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Under test for loB approval | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| BCE guide to overseas malting | - | Y | Y | - | - | - | - | - | - | - | - | - | - | Y | - | - | - | - | - | - | - | |
| Pearling | - | - | - | - | - | - | ? | - | - | (Y) | Y | - | - | - | - | - | - | ? | - | - | - | |
| Year first listed | 05 | 99 | 00 | 95 | 05 | 05 | 04 | 03 | 02 | 02 | 01 | 01 | 89 | 96 | 98 | 04 | 00 | 03 | 02 | 05 | | |
| Grain quality | | | | | | | | | | | | | | | | | | | | | | |
| Specific weight (kg/hl) | 68.4 | 69.9 | 69.9 | 71.2 | 69.9 | 67.7 | 70.7 | 66.2 | 69.7 | 71.3 | 70.9 | 68.3 | 68.9 | 68.7 | 69.9 | 66.2 | 63.0 | 69.6 | 70.1 | 64.2 | | 0.9 |
| Screenings % through 2.25 mm | 2.7 | 2.1 | 1.6 | 3.4 | 1.5 | 1.6 | 2.3 | 4.0 | 2.6 | 1.3 | 1.8 | 3.8 | 2.9 | 3.0 | 2.2 | 5.0 | 3.8 | 5.7 | 9.1 | 4.7 | | 1.3 |
| Screenings % through 2.5 mm | 8.3 | 5.7 | 3.7 | 10.2 | 5.9 | 5.0 | 7.1 | 10.9 | 9.3 | 3.4 | 4.4 | 12.8 | 8.5 | 8.5 | 5.7 | 16.5 | 13.1 | 17.9 | 26.7 | 15.1 | | 3.0 |
| Nitrogen content (%) | 1.51 | 1.61 | 1.66 | 1.60 | - | - | 1.61 | 1.55 | 1.64 | 1.58 | 1.65 | 1.56 | - | 1.61 | 1.65 | - | 1.58 | 1.53 | 1.46 | - | | 0.08 |

P1, P2 = first and second year of recommendation

* = variety no longer in trial

C = yield control

Y = suited to that market

(Y) = may be suited to that market

? = further information required

F = full loB approval

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

E&W = Recommended for dry (East) and wet (West) regions.

\$ = Colossus is a hybrid barley and is recommended for the North and wet (West) regions.

® = "HGCA RECOMMENDED LIST" is a registered trademark of the Home-Grown Cereals Authority.

Varieties no longer listed: Antonia, Aquarelle and Heligan



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YIELD, AGRONOMY AND DISEASE RESISTANCE

| | P1 | C | * | | P1 | P1 | P2 | C | | C | * | * | * | C | * | P2 | C | | P1 | Average LSD (5%) | | |
|---|-----------------|-------|---------|---------|--------------|----------|--------|---------|--------|-------|------|------|----------|--------|-------|--------------|---------|--------|------|------------------|-------|-------|
| | Flagon | Pearl | Vanessa | Fanfare | Saffron | Spectrum | Camion | Cannock | Scylla | Carat | Haka | Sumo | Pastoral | Regina | Jewel | Colossus \$ | Siberia | Sequel | Pict | Amarena | | |
| Variety type | Two-row malting | | | | Two-row feed | | | | | | | | | | | Six-row feed | | | | | | |
| Scope of recommendation | UK | UK | E&W | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | N&W | UK | UK | UK | UK | North | |
| Grain yield as % treated control | | | | | | | | | | | | | | | | | | | | | | |
| United Kingdom (8.2 t/ha) | 102 | 98 | 96 | 96 | 106 | 102 | 102 | 102 | 100 | 99 | 99 | 97 | 97 | 96 | 95 | 110 | 105 | 105 | 104 | 103 | | 2.9 |
| North region (8.7 t/ha) # | 99 | 99 | 96 | 95 | 105 | 102 | 103 | 103 | 100 | 98 | 97 | 98 | 97 | 97 | 96 | 111 | 104 | 103 | 103 | 106 | | 3.6 |
| Dry (East) region (8.1 t/ha) # | 102 | 98 | 98 | 97 | 108 | 102 | 102 | 102 | 99 | 100 | 100 | 98 | 97 | 96 | 95 | 108 | 105 | 106 | 103 | 101 | | 3.3 |
| Wet (West) region (7.9 t/ha) # | 104 | 99 | 96 | 96 | 106 | 102 | 102 | 101 | 99 | 100 | 98 | 97 | 96 | 94 | 95 | 112 | 105 | 105 | 104 | 103 | | 3.7 |
| Untreated grain yield (% treated control in comparable trials) | | | | | | | | | | | | | | | | | | | | | | |
| United Kingdom | 86 | 82 | 79 | 80 | 89 | 79 | 84 | 80 | 81 | 80 | 82 | 77 | 76 | 77 | 79 | 85 | 87 | 87 | 86 | 90 | | 4.6 |
| Agronomic features | | | | | | | | | | | | | | | | | | | | | | |
| Resistance to lodging | 4 | 7 | 8 | 6 | 8 | 9 | 8 | 6 | 8 | 8 | 8 | 8 | 7 | 8 | 7 | 6 | 8 | 8 | 7 | 8 | | |
| Straw height (cm) | 103 | 103 | 98 | 94 | 95 | 89 | 95 | 97 | 90 | 88 | 96 | 94 | 93 | 98 | 93 | 114 | 93 | 110 | 107 | 106 | | 2.9 |
| Ripening (+/- Pearl, -ve = earlier) | -1 | 0 | -1 | 0 | 0 | -1 | -2 | +1 | -1 | -3 | -2 | 0 | -2 | 0 | -2 | -3 | -4 | -3 | -3 | -3 | | 0.8 |
| Winter hardiness | - | 5 | 6 | (7) | - | - | (5) | 4 | 7 | 5 | 7 | 5 | (7) | 6 | 3 | (5) | 5 | 6 | 6 | - | | 3.3 |
| Disease resistance | | | | | | | | | | | | | | | | | | | | | | |
| Mildew | 8 | 7 | 8 | 6 | 5 | 6 | 5 | 2 | 6 | 7 | 7 | 7 | 2 | 3 | 6 | 4 | 6 | 8 | 8 | 9 | | 1.3 |
| Yellow rust | 7 | 5 | 3 | 7 | 6 | 6 | 7 | 8 | 6 | 6 | 7 | 6 | 8 | 2 | 8 | 4 | 4 | 5 | 6 | 4 | | 1.3 |
| Brown rust | 8 | 7 | 3 | 8 | 7 | 5 | 5 | 5 | 6 | 5 | 7 | 8 | 8 | 8 | 6 | 3 | 5 | 5 | 7 | 8 | | 0.9 |
| <i>Rhynchosporium</i> | 8 | 7 | 8 | 8 | 6 | 7 | 7 | 8 | 7 | 7 | 5 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | | 0.6 |
| Net blotch | 6 | 5 | 7 | 7 | 8 | 6 | 8 | 8 | 8 | 7 | 7 | 8 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 8 | | (2.5) |
| BaYMV | - | - | - | - | - | R | - | - | - | R | - | - | - | - | R | - | R | R | R | - | | |

P1, P2 = first and second year of recommendation

* = variety no longer in trial

C = yield control

() = limited data. Bracketed LSDs are approximate

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 (eg high resistance).

R = resistant to barley mild mosaic virus (BaMMV) and to barley yellow mosaic virus (BaYMV) strain 1.

= The regional yields include supplementary trials (2000 to 2001) which may not have received the full fungicide protocol. Comparisons of variety performance across regions are not valid.

\$ = Colossus is a hybrid barley and is recommended for the North and wet (West) regions.

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SUPPLEMENTARY DATA

| | P1 | C | * | | P1 | P1 | P2 | C | | C | * | * | * | C | * | P2 | C | | P1 | Average LSD (5%) | |
|--|-----------------|-------|---------|---------|--------------|----------|--------|---------|--------|-------|-------|-------|----------|--------|-------|--------------|---------|--------|-------|------------------|-----|
| | Flagon | Pearl | Vanessa | Fanfare | Saffron | Spectrum | Camion | Cannock | Scylla | Carat | Haka | Sumo | Pastoral | Regina | Jewel | Colossus | Siberia | Sequel | Pict | Amarena | |
| Variety type | Two-row malting | | | | Two-row feed | | | | | | | | | | | Six-row feed | | | | | |
| Scope of recommendation | UK | UK | E&W | UK | UK | UK | UK | UK | UK | UK | UK | UK | North | UK | UK | N&W | UK | UK | UK | North | |
| Breeder/ Agent | | | | | | | | | | | | | | | | | | | | | |
| Breeder | NFC | Nick | Bru | Adv | CPB | Nick | CPB | Nick | CPB | Nick | CPB | NFC | Sec | Bru | Nick | NFC | Sec | NFC | CPB | SU | |
| Agent | NFC | Nick | Bcar | Adv | CPB | Nick | CPB | Nick | CPB | Nick | CPB | NFC | Nick | BSH | Nick | NFC | Dal | NFC | CPB | SU | |
| Annual yields as % treated control | | | | | | | | | | | | | | | | | | | | | |
| 2000 treated yield (8.7 t/ha) | - | 96 | 95 | 96 | - | - | - | 103 | 101 | 102 | 97 | 97 | 96 | 95 | 95 | - | 105 | 105 | 106 | - | 2.9 |
| 2001 treated yield (7.8 t/ha) | - | 95 | 96 | 98 | - | - | 102 | 105 | 99 | 100 | 99 | 98 | 99 | 95 | 97 | 115 | 106 | 107 | 104 | - | 4.0 |
| 2002 treated yield (7.8 t/ha) | 102 | 98 | 97 | 94 | 106 | 102 | 102 | 100 | 100 | 100 | 100 | 96 | 97 | 95 | 95 | 106 | 107 | 106 | 104 | 102 | 3.6 |
| 2003 treated yield (7.8 t/ha) | 103 | 101 | 96 | - | 106 | 100 | 103 | 103 | 100 | 96 | 99 | 97 | 96 | 96 | 94 | 110 | 104 | 103 | 100 | 101 | 3.0 |
| 2004 treated yield (8.7 t/ha) | 101 | 98 | - | - | 107 | 104 | 102 | 102 | 97 | 100 | 97 | - | - | 96 | - | 110 | 104 | 105 | 104 | 105 | 4.5 |
| Soil type (about 50% of trials are medium soils) | | | | | | | | | | | | | | | | | | | | | |
| Light soils (7.9 t/ha) | 99 | 98 | 96 | 97 | 110 | 104 | 103 | 102 | 101 | 101 | 100 | 96 | 99 | 95 | 96 | 109 | 105 | 104 | 104 | 105 | 4.1 |
| Heavy soils (8.3 t/ha) | 101 | 98 | 96 | 95 | 106 | 101 | 101 | 102 | 98 | 98 | 98 | 98 | 97 | 96 | 94 | 109 | 106 | 104 | 103 | 100 | 3.1 |
| Agronomic characteristics | | | | | | | | | | | | | | | | | | | | | |
| Lodging % without PGR | 18.8 | 4.0 | 2.4 | 8.1 | 1.9 | 0.0 | 2.9 | 11.1 | 2.2 | 2.3 | 2.8 | 2.0 | 3.5 | 2.2 | 3.4 | 9.4 | 0.9 | 3.5 | 6.2 | 1.9 | |
| Lodging % with PGR | 14.9 | 4.3 | 3.2 | 4.4 | 1.0 | 0.0 | 1.5 | 3.0 | 1.4 | 0.9 | 1.3 | 2.2 | 3.3 | 2.4 | 3.7 | 5.7 | 1.1 | 2.1 | 4.4 | 2.4 | |
| Malting quality | | | | | | | | | | | | | | | | | | | | | |
| Hot water extract (l deg/kg) | 309.4 | 306.7 | 304.5 | 307.6 | - | - | 301.4 | 301.8 | 299.2 | 302.8 | 299.6 | 301.2 | - | 305.1 | 300.2 | - | 289.4 | 301.9 | 297.7 | - | 3.2 |

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)

Bcar = Banks Cargill Agriculture Ltd (www.bankscargill.co.uk)

Bru = Breun, Germany

BSH = British Seed Houses Ltd (www.britishseedhouses.com)

CPB = CPB Twyford Ltd (www.cpb-twyford.co.uk)

Dal = Dalgety Masstock (www.dalgety.co.uk)

NFC = Syngenta Seeds, New Farm Crops (www.newfarmcrops.co.uk)

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

Sec = Secobra, France

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

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