

HGCA Recommended List[®] Spring barley 2015

Market options, yield and grain quality

| | RECOMMENDED | | NEW | NEW | NEW | NEW | NEW | NEW | C | C | C* | * | C | C | * | NEW | * | * | | | | | | | | | |
|---|-------------------|-----------|---------|---------|---------|--------|-------|---------|---------|---------|--------|-----------|----------|------------|-----------|----------------|--------|---------|-------|--------|------------|--------|--------|--------|-------------|------------------|--|
| | RGT Planet | KWS Irina | Sanette | Olympus | Deveron | Sienna | Vault | Octavia | Odyssey | Propino | Quench | Moonshine | Concerto | NFC Tipple | Belgravia | Optic | Shada | Scholar | Tesla | Hacker | Rhyncostar | Garner | Kelim | Waggon | Westminster | Average LSD (5%) | |
| End-use group | Malting varieties | | | | | | | | | | | | | | | Feed varieties | | | | | | | | | | | |
| Scope of recommendation | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | N | UK | UK | N | N | UK | UK | UK | W | UK | UK | UK | UK | UK | | |
| Fungicide-treated grain yield as % treated control | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| United Kingdom (7.1 t/ha) | 109 | 108 | 107 | 105 | 105 | 104 | 104 | 104 | 102 | 102 | 101 | 99 | 97 | 97 | 96 | 93 | 108 | 108 | 104 | 103 | 103 | 101 | 101 | 100 | 93 | 2.6 | |
| East region (7.1 t/ha) | [111] | 106 | 107 | [104] | [104] | [103] | [101] | [106] | 103 | 101 | 101 | [99] | 99 | 96 | - | 91 | 107 | [107] | 104 | 102 | 102 | 101 | 99 | 98 | 93 | 3.3 | |
| West region (7.5 t/ha) | 109 | 107 | 107 | 107 | 106 | 105 | 103 | 100 | 101 | 102 | 101 | 98 | 98 | 97 | [98] | 92 | 108 | 107 | 105 | 105 | 101 | 102 | 101 | 100 | 94 | 3.0 | |
| North region (6.8 t/ha) | 108 | 108 | 108 | 106 | 106 | 104 | 106 | 105 | 102 | 103 | 101 | 99 | 96 | 98 | 96 | 94 | 108 | 109 | 104 | 103 | 106 | 100 | 102 | 101 | 93 | 2.3 | |
| Main market options | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IBD malting approval for brewing use | T | P | P | - | N | T | T | T | F | F | O | N | F | F | N | O | - | - | - | - | - | - | - | - | - | - | |
| IBD malting approval for distilling use | N | N | N | T | T | T | T | T | F | N | N | F | F | N | F | F | - | - | - | - | - | - | - | - | - | - | |
| IBD malting approval for grain distilling use | N | N | N | T | - | N | - | N | N | N | N | N | N | N | F | N | - | - | - | - | - | - | - | - | - | - | |
| Overseas malting | - | [Y] | [Y] | - | - | - | - | - | [Y] | Y | Y | - | [Y] | Y | - | - | - | - | - | - | - | - | - | - | - | - | |
| Grain quality | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Specific weight (kg/hl) | 67.9 | 66.2 | 67.2 | 67.0 | 67.9 | 70.9 | 67.1 | 66.7 | 68.2 | 67.9 | 68.4 | 67.7 | 68.8 | 68.5 | 68.0 | 70.1 | 66.0 | 68.3 | 66.1 | 69.8 | 67.0 | 66.9 | 67.9 | 67.6 | 70.0 | 0.8 | |
| Screenings % through 2.25 mm | 1.7 | 1.8 | 2.1 | 1.9 | 2.3 | 1.8 | 1.7 | 1.6 | 1.4 | 1.2 | 1.9 | 1.4 | 1.3 | 1.8 | 1.7 | 1.6 | [3.6] | 2.1 | [2.3] | 1.7 | [2.9] | - | [2.7] | - | 1.5 | 0.4 | |
| Screenings % through 2.5 mm | 4.1 | 4.6 | 4.7 | 5.0 | 6.4 | 3.7 | 4.4 | 3.4 | 3.6 | 2.4 | 4.9 | 3.5 | 2.8 | 4.4 | 3.9 | 5.0 | [10.2] | 6.0 | [4.9] | 3.6 | [6.8] | - | [7.1] | - | 3.5 | 1.3 | |
| Nitrogen content (%) | 1.40 | 1.43 | 1.45 | 1.51 | 1.43 | 1.42 | 1.42 | 1.38 | 1.44 | 1.51 | 1.49 | 1.45 | 1.47 | 1.46 | [1.56] | 1.50 | 1.41 | [1.42] | 1.48 | 1.48 | [1.47] | - | [1.52] | - | - | 0.06 | |
| Status in RL system | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Year first listed | 15 | 14 | 13 | 15 | 15 | 15 | 15 | 15 | 12 | 10 | 07 | 11 | 09 | 05 | 08 | 95 | 14 | 15 | 13 | 14 | 13 | 10 | 13 | 05 | 05 | | |
| RL status | P1 | P2 | P2 | P1 | P1 | P1 | P1 | P1 | - | - | * | * | - | - | - | * | P2 | P1 | - | P2 | * | * | - | - | - | - | |

Varieties no longer listed: Crooner, Glassel, KWS Aurelia, KWS Orphelia, Montoya, Natasia, Overture and Shaloo, Comparisons of variety performance across regions are not valid
 Growers are strongly advised to check with their buyer before committing to a malting variety without full IBD approval

UK = recommended for the UK
 N = recommended for the North region
 W = recommended for the West region

F = full IBD approval
 N = not approved by IBD for this segment
 O = no longer approved by IBD
 P = provisional IBD approval
 T = under test for IBD approval in this segment

Y = suited to that market
 [Y] = may be suited to that market
 [] = limited data
 C = yield control (for current table)
 * = variety no longer in trials

P1 = first year of recommendation
 P2 = second year of recommendation

LSD = least significant difference

Average LSD (5%): varieties that are more than one LSD apart are significantly different at the 5% confidence level

® = "HGCA RECOMMENDED LIST" is a registered trademark of the Agriculture and Horticulture Development Board

HGCA Recommended List[®] Spring barley 2015

YIELD, AGRONOMY AND DISEASE RESISTANCE

| | RECOMMENDED | NEW | NEW | NEW | NEW | NEW | NEW | C | C | C* | * | C | C | * | NEW | * | * | | | | | | | | | | Average LSD (5%) |
|---|--------------------------|-----------|---------|---------|---------|--------|-------|---------|--------|---------|--------|-----------|----------|------------|-----------|-------|-------|---------|-------|--------|------------|--------|-------|--------|-------------|-----|------------------|
| | RGT Planet | KWS Irina | Sanette | Olympus | Deveron | Sienna | Vault | Octavia | Odysey | Propino | Quench | Moonshine | Concerto | NFC Tipple | Belgravia | Optic | Shada | Scholar | Tesla | Hacker | Rhyncostar | Garner | Kelim | Waggon | Westminster | | |
| End-use group | Malting varieties | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scope of recommendation | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | N | UK | UK | N | N | UK | UK | UK | W | UK | UK | UK | UK | UK | UK | |
| Fungicide-treated grain yield as % treated control | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| United Kingdom (7.1 t/ha) | 109 | 108 | 107 | 105 | 105 | 104 | 104 | 104 | 102 | 102 | 101 | 99 | 97 | 97 | 96 | 93 | 108 | 108 | 104 | 103 | 103 | 101 | 101 | 100 | 93 | 2.6 | |
| East region (7.1 t/ha) | [111] | 106 | 107 | [104] | [104] | [103] | [101] | [106] | 103 | 101 | 101 | [99] | 99 | 96 | - | 91 | 107 | [107] | 104 | 102 | 102 | 101 | 99 | 98 | 93 | 3.3 | |
| West region (7.5 t/ha) | 109 | 107 | 107 | 107 | 106 | 105 | 103 | 100 | 101 | 102 | 101 | 98 | 98 | 97 | [98] | 92 | 108 | 107 | 105 | 105 | 101 | 102 | 101 | 100 | 94 | 3.0 | |
| North region (6.8 t/ha) | 108 | 108 | 108 | 106 | 106 | 104 | 106 | 105 | 102 | 103 | 101 | 99 | 96 | 98 | 96 | 94 | 108 | 109 | 104 | 103 | 106 | 100 | 102 | 101 | 93 | 2.3 | |
| Untreated grain yield (as % treated control) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| United Kingdom (7.1 t/ha) | 97 | 94 | 92 | 91 | 91 | 93 | 89 | 90 | 89 | 90 | 88 | 87 | 86 | 84 | 85 | 77 | 96 | 94 | 93 | 92 | 89 | 88 | 90 | 87 | 84 | 3.1 | |
| Agronomic features | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance to lodging | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | - | 7 | 7 | 7 | 6 | 8 | 6 | 8 | 8 | 7 | 7 | 0.5 | |
| Straw height (cm) | 74 | 70 | 72 | 74 | 70 | 78 | 76 | 73 | 75 | 77 | 72 | 73 | 78 | 70 | 78 | 75 | 69 | 69 | 76 | 75 | 70 | 74 | 79 | 74 | 82 | 1.6 | |
| Ripening (+/- Optic, -ve = earlier) | +1 | +1 | +2 | +2 | +2 | +2 | +2 | +1 | +2 | +1 | +1 | 0 | +2 | 0 | +1 | 0 | +2 | +1 | +1 | 0 | +1 | 0 | +2 | 0 | +1 | 0.8 | |
| Resistance to brackling | 8 | 9 | 8 | 6 | 7 | 8 | 7 | 6 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 5 | 8 | 9 | 6 | 8 | 8 | 7 | 9 | 8 | 7 | 0.9 | |
| Disease resistance | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mildew | [9] | 9 | 9 | [9] | [9] | [9] | [9] | [9] | 9 | 6 | 8 | [9] | 9 | 6 | [8] | 5 | 9 | [9] | 9 | 9 | 9 | 9 | 8 | 9 | 8 | 1.0 | |
| Yellow rust | [4] | [6] | [7] | [7] | [4] | [6] | [5] | [7] | 7 | 4 | 5 | 7 | 7 | 5 | 7 | 7 | [5] | [7] | [6] | [5] | [5] | 6 | [5] | 7 | 7 | 1.9 | |
| Brown rust | 5 | 5 | 4 | 7 | 5 | 5 | 4 | 5 | 4 | 5 | 4 | 4 | 6 | 6 | 6 | 7 | 6 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 6 | 1.8 | |
| Rhynchosporium | 5 | 5 | 6 | 6 | 5 | 6 | 5 | 7 | 6 | 6 | 6 | 5 | 4 | 4 | 6 | 3 | 5 | 6 | 7 | 6 | 7 | 7 | 6 | 4 | 7 | 1.1 | |
| Ramularia | [6] | 7 | 8 | [4] | [5] | [5] | [7] | [5] | 6 | 6 | 6 | 4 | 6 | 4 | [6] | 5 | 7 | [8] | 7 | 5 | 4 | 4 | 8 | 8 | 7 | 3.1 | |

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
 C = yield control (for current table)
 * = variety no longer in trials
 LSD = least significant difference
 Average LSD (5%): varieties that are more than one LSD apart are significantly different at the 5% confidence level

UK = recommended for the UK
 N = recommended for the North region
 W = recommended for the West region
 [] = limited data

® = "HGCA RECOMMENDED LIST" is a registered trademark of the Agriculture and Horticulture Development Board

HGCA Recommended List[®] Spring barley 2015

SUPPLEMENTARY DATA

| | NEW | | NEW NEW NEW NEW NEW | | | | | | C | C | C* | * | C | C | * | NEW | | | | * | * | | | Average LSD (5%) | | |
|---|-------------------|-----------|---------------------|---------|---------|--------|-------|---------|---------|---------|--------|-----------|----------|------------|-----------|-------|-------|---------|-------|--------|------------|--------|-------|------------------|-------------|-----|
| | RGT Planet | KWS Irina | Sanette | Olympus | Deveron | Sienna | Vault | Octavia | Odyssey | Propino | Quench | Moonshine | Concerto | NFC Tipple | Belgravia | Optic | Shada | Scholar | Tesla | Hacker | Rhyncostar | Garner | Kelim | Waggon | Westminster | |
| End-use group | Malting varieties | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scope of recommendation | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | N | UK | UK | N | N | UK | UK | UK | W | UK | UK | UK | UK | UK | |
| Breeder/ UK contact | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Breeder | RAGT | KWS | SyP | LimEur | LimEur | LimEur | Syn | LimEur | Lim | SyP | SyP | RAGT | Lim | SyP | Lim | SyP | SyP | Syn | Lim | Sec | Sec | SyP | SyP | SyP | Lim | |
| UK contact | RAGT | KWS | Syn | Lim | Lim | Lim | Syn | Lim | Lim | Syn | Syn | RAGT | Lim | Syn | Lim | Syn | Syn | Syn | Lim | Agr | Agr | Syn | Syn | Syn | Lim | |
| Annual treated yield (% control) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2010 treated (7.3 t/ha) | - | - | 105 | - | - | - | - | - | 102 | 101 | 101 | 99 | 99 | 98 | 99 | 93 | - | - | 104 | - | 103 | 100 | 103 | 100 | 92 | 3.2 |
| 2011 treated (7.3 t/ha) | - | 106 | 106 | - | - | - | - | - | 107 | 100 | 101 | 97 | 96 | 96 | 95 | 92 | 106 | - | 104 | 102 | 103 | 102 | 104 | 99 | 96 | 3.2 |
| 2012 treated (6.4 t/ha) | 112 | 109 | 108 | 103 | 107 | 104 | 103 | 104 | 102 | 102 | 99 | 99 | 100 | 97 | [93] | 92 | 108 | 106 | 105 | 106 | 101 | 101 | 101 | 101 | [95] | 3.2 |
| 2013 treated (7.0 t/ha) | 106 | 105 | - | 103 | 104 | 103 | 106 | 103 | 99 | 105 | 102 | 98 | 96 | 98 | 97 | 92 | 109 | 108 | 103 | 102 | 105 | 101 | 102 | 100 | 92 | 3.4 |
| 2014 treated (7.8 t/ha) | 110 | 110 | 109 | 109 | 106 | 105 | 104 | 104 | 102 | 102 | 101 | 101 | 97 | 99 | 96 | - | 108 | 109 | 105 | 104 | 104 | 102 | 97 | 102 | 92 | 2.6 |
| Malting quality | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hot water extract (l deg/kg) | 315.2 | 314.7 | 313.8 | 311.9 | 311.8 | 315.7 | 313.5 | 316.9 | 313.8 | 313.6 | 313.4 | 313.3 | 316.1 | 311.9 | 311.7 | 312.5 | 311.6 | 311.4 | 313.9 | 314.2 | 313.2 | - | 311.0 | - | - | 1.8 |

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

UK = recommended for the UK
 N = recommended for the North region
 W = recommended for the West region
 [] = limited data
 C = yield control
 * = variety no longer in trial

Key to Breeder and UK contact codes
 Agr = Agrii (www.agrii.co.uk)
 KWS = KWS UK (www.kws-uk.com)
 Lim = Limagrain UK (www.limagrain.co.uk)
 LimEur = Limagrain Europe SA

RAGT = RAGT Seeds (www.ragt.co.uk)
 Sec = Secobra, France
 Syn = Syngenta UK Ltd (www.syngenta.co.uk)
 SyP = Syngenta Participations AG (www.syngenta.co.uk)

LSD = least significant difference

Average LSD (5%): varieties that are more than one LSD apart are significantly different at the 5% confidence level

® = "HGCA RECOMMENDED LIST" is a registered trademark of the Agriculture and Horticulture Development Board