

AHDB Recommended List - Table 1

Winter Wheat 2017/18 - Hard Group 4

| MARKET OPTIONS, YIELD AND GRAIN QUALITY | | | | | | | | | | | | | | | | | |
|--|--------------|---------|----------|----------|-----------------|---------|--------|------------|--------------|-------------|-----------|---------|----------|----------|---------|------------------|------|
| | RECOMMENDED | NEW | NEW | NEW | NEW | | | | C | | | | | C | * | Average LSD (5%) | |
| | KWS Kerrin | Shabras | Belgrade | Freiston | KWS Silverstone | Dunston | Graham | Reflection | KWS Santiago | KWS Crispin | Evolution | Dickens | Costello | JB Diego | Grafton | Relay | |
| End-use group | Hard Group 4 | | | | | | | | | | | | | | | | |
| Scope of recommendation | E&W | UK | E&W | UK | UK | UK | UK | UK | E&W | UK | UK | UK | UK | UK | UK | E&W | |
| Fungicide-treated grain yield (% treated control) | | | | | | | | | | | | | | | | | |
| United Kingdom (10.7 t/ha) | 106 | 106 | 104 | 104 | 104 | 104 | 104 | 103 | 103 | 103 | 102 | 102 | 101 | 100 | 99 | 98 | 2.7 |
| East region (10.8 t/ha) | 106 | 105 | 104 | 103 | 104 | 104 | 103 | 103 | 104 | 103 | 102 | 101 | 101 | 100 | 99 | 98 | 3.1 |
| West region (10.7 t/ha) | 105 | 106 | 105 | 106 | 103 | 102 | 106 | 105 | 102 | 104 | 101 | 102 | 102 | 101 | 99 | 97 | 3.4 |
| North region (9.9 t/ha) | [110] | [105] | 102 | [106] | 106 | [107] | 100 | 104 | 104 | 98 | 104 | 104 | 99 | 100 | [100] | 100 | 4.3 |
| Main market options (The specific attributes of varieties are different so, whenever possible, varieties should not be mixed in store) | | | | | | | | | | | | | | | | | |
| UK breadmaking | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UK biscuit, cake-making | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UK distilling | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ukp bread wheat for export | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| uks soft wheat for export | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Grain quality | | | | | | | | | | | | | | | | | |
| Endosperm texture | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard | Hard |
| Protein content (%) | 10.5 | 10.9 | 11.0 | 10.8 | 11.0 | 11.1 | 11.1 | 10.9 | 11.1 | 11.3 | 10.8 | 11.1 | 11.6 | 11.2 | 11.5 | 11.4 | 0.3 |
| Protein content (%) - Milling spec | 11.6 | 12.1 | 12.0 | 12.0 | 12.0 | 12.4 | 12.2 | 12.1 | 12.5 | 12.5 | 12.1 | 12.2 | 12.6 | 12.4 | 12.8 | 12.6 | 0.3 |
| Hagberg Falling Number | 135 | 200 | 193 | 177 | 295 | 231 | 275 | 239 | 168 | 277 | 195 | 251 | 326 | 309 | 305 | 286 | 22 |
| Specific weight (kg/hl) | 75.7 | 75.5 | 75.0 | 76.8 | 78.1 | 76.4 | 76.1 | 77.3 | 75.1 | 76.4 | 74.2 | 75.9 | 80.1 | 77.4 | 77.8 | 76.3 | 0.7 |
| Chopin alveograph W | - | - | - | [76] | [179] | [74] | 134 | - | - | - | [198] | - | 202 | - | - | - | 26 |
| Chopin alveograph P/L | - | - | - | [0.9] | [1.5] | [0.7] | 0.6 | - | - | - | [1.4] | - | 0.9 | - | - | - | 0.2 |

Varieties no longer listed: Horatio, KWS Gator, KWS Kielder, RGT Conversion, Scout and Solstice

Comparisons of varieties across regions are not valid.

UK = recommended for the UK

E&W = recommended for the East and West regions

N = recommended for the North region

C = yield control (for current table)

[] = limited data

[[]] = very limited data

Y = suited to that market

[Y] = may be suited to that market

* = 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 95% confidence level.

AHDB Recommended List - Table 1

Winter Wheat 2017/18 - nabim Groups 1-3 and Soft Group 4

YIELD, AGRONOMY AND DISEASE RESISTANCE

| | RECOMMENDED | NEW | C | C | * | C | * | C | * | NEW | NEW | NEW | NEW | NEW | NEW | NEW | NEW | NEW | NEW | Average LSD (5%) | | | | | | | |
|--|---------------|-----|-----|---------------|-----|-----|---------------|-----|-----|--------------|-----|-----|-----|-----|------|-------|-------|-------|-------|------------------|-------|-----|-----|-----|-----|-----|-----|
| | nabim Group 1 | | | nabim Group 2 | | | nabim Group 3 | | | Soft Group 4 | | | | | | | | | | | | | | | | | |
| End-use group | UK | UK | UK | UK | UK | UK | UK | UK | E&W | UK | UK | UK | E&W | UK | N | UK | UK | UK | N | UK | N | UK | | | | | |
| Scope of recommendation | UK | UK | UK | UK | UK | UK | UK | UK | E&W | UK | UK | UK | E&W | UK | N | UK | UK | UK | N | UK | N | UK | | | | | |
| Fungicide-treated grain yield (% treated control) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| United Kingdom (10.7 t/ha) | 102 | 101 | 99 | 98 | 97 | 97 | 103 | 102 | 96 | 103 | 102 | 100 | 100 | 99 | 96 | 104 | 104 | 103 | 103 | 103 | 103 | 102 | 100 | 99 | 98 | 2.7 | |
| East region (10.8 t/ha) | 102 | 100 | 99 | 98 | 97 | 97 | 103 | 102 | 97 | 102 | 102 | 101 | 101 | 99 | 96 | 105 | 103 | 104 | 103 | 103 | 103 | 102 | 99 | 99 | 99 | 3.1 | |
| West region (10.7 t/ha) | 103 | 101 | 98 | 98 | 98 | 96 | 104 | 102 | 96 | 102 | 101 | 101 | 99 | 98 | 96 | 103 | 104 | 101 | 102 | 104 | 101 | 100 | 99 | 98 | 97 | 3.4 | |
| North region (9.9 t/ha) | [98] | 101 | 100 | 95 | 93 | 93 | 101 | 104 | 94 | 109 | 102 | 97 | 101 | 102 | [97] | [101] | [102] | [106] | [104] | [100] | [104] | 104 | 103 | 103 | 100 | 4.3 | |
| Untreated grain yield (% treated control) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| United Kingdom (10.7 t/ha) | 91 | 82 | 76 | 83 | 77 | 60 | 88 | 75 | 64 | 74 | 74 | 84 | 76 | 76 | 70 | 90 | 90 | 81 | 89 | 90 | 86 | 71 | 71 | 70 | 81 | 6.2 | |
| Agonomic features | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance to lodging without PGR (1-9) | 7 | 8 | 7 | 7 | 7 | 7 | 6 | 7 | 8 | 8 | 6 | 6 | 7 | 6 | [6] | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 0.8 | |
| Resistance to lodging with PGR (1-9) | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 6 | 7 | 8 | 7 | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 8 | 7 | 7 | 8 | 0.7 | |
| Height without PGR (cm) | 84 | 82 | 81 | 89 | 81 | 82 | 84 | 81 | 79 | 83 | 88 | 90 | 85 | 89 | 87 | 91 | 87 | 88 | 84 | 90 | 80 | 86 | 81 | 89 | 86 | 2.2 | |
| Ripening (days +/- JB Diego, -ve = earlier) | 0 | 0 | +1 | +1 | 0 | -2 | 0 | +2 | -2 | +1 | +1 | 0 | +1 | +1 | 0 | +1 | +1 | 0 | -1 | 0 | 0 | +2 | 0 | +1 | +3 | 0.7 | |
| Resistance to sprouting (1-9) | - | 4 | [7] | [6] | 6 | 6 | [5] | [7] | 6 | [6] | [6] | [6] | [6] | [6] | [5] | - | - | - | - | - | - | 6 | 5 | [6] | 5 | 0.9 | |
| Disease resistance | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mildew (1-9) | 7 | 6 | 8 | 7 | 7 | 6 | 9 | 8 | 6 | 6 | 5 | 9 | 5 | 7 | [5] | 7 | 6 | 7 | 8 | 7 | 5 | 3 | [7] | 6 | 6 | 2.1 | |
| Yellow rust (1-9) | 7 | 6 | 9 | 9 | 9 | 4 | 9 | 7 | 4 | 8 | 4 | 6 | 8 | 5 | 5 | 7 | 9 | 8 | 9 | 8 | 8 | 6 | 6 | 4 | 9 | 1.0 | |
| Brown rust (1-9) | 6 | 9 | 8 | 7 | 3 | 7 | 5 | 5 | 4 | 6 | 6 | 7 | 5 | 4 | 5 | 7 | 6 | 4 | 7 | 7 | 6 | 5 | 8 | 5 | 8 | 1.3 | |
| Septoria nodorum (1-9) | [6] | [5] | [5] | [6] | 6 | 5 | [6] | [6] | [5] | [5] | [5] | [7] | [6] | [6] | [5] | [7] | [6] | [6] | [6] | [6] | [6] | [6] | [6] | [5] | [6] | 0.7 | |
| Septoria tritici (1-9) | 6.4 | 6.0 | 5.3 | 6.3 | 6.7 | 4.6 | 6.8 | 5.9 | 4.8 | 4.4 | 5.3 | 5.7 | 5.4 | 5.7 | 5.3 | 6.2 | 7.3 | 5.3 | 5.8 | 6.5 | 5.9 | 4.6 | 4.6 | 5.5 | 6.4 | 0.7 | |
| Eyespot (1-9) | [7]@ | 6@ | 5 | 7@ | 4 | 5 | 4 | 5 | 5 | 4 | 3 | 4 | 5 | 4 | 5 | [5] | [3] | [4] | [3] | [4] | [4] | [4] | 4 | 5 | 5 | 8@ | 1.5 |
| Fusarium ear blight (1-9) | 6 | 7 | 6 | 6 | 6 | 5 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 0.5 | |
| Orange wheat blossom midge | - | R | - | - | - | - | - | - | - | R | - | - | R | R | - | - | R | - | R | - | - | R | R | R | - | | |

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

UK = recommended for the UK
 E&W = recommended for the East and West regions
 N = recommended for the North region

C = yield control (for current table)
 [] = limited data

* = variety no longer in trials
 [] = very limited data

Comparisons of varieties across regions are not valid.


R = believed to be resistant to orange wheat blossom midge (OWBM) but this has not been verified in RL tests
 @ believed to carry the *Pch1* Rendezvous resistance gene to eyespot but this has not been verified in RL tests

LSD = Least significant difference
 Average LSD (5%): varieties that are more than one LSD apart are significantly different at the 95% confidence level.

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Winter Wheat 2017/18 - Hard Group 4

YIELD, AGRONOMY AND DISEASE RESISTANCE

| | RECOMMENDED | NEW | NEW | NEW | NEW | | | | | C | | | | | C | * | Average LSD (5%) | |
|---|---|------------|---------|----------|----------|-----------------|---------|--------|------------|--------------|-------------|-----------|---------|----------|----------|---------|------------------|-----|
| |  | KWS Kerrin | Shabras | Belgrade | Freiston | KWS Silverstone | Dunston | Graham | Reflection | KWS Santiago | KWS Crispin | Evolution | Dickens | Costello | JB Diego | Grafton | Relay | |
| End-use group | Hard Group 4 | | | | | | | | | | | | | | | | | |
| Scope of recommendation | E&W | UK | E&W | UK | UK | UK | UK | UK | UK | E&W | UK | UK | UK | UK | UK | UK | E&W | |
| Fungicide-treated grain yield (% treated control) | | | | | | | | | | | | | | | | | | |
| United Kingdom (10.7 t/ha) | 106 | 106 | 104 | 104 | 104 | 104 | 104 | 104 | 103 | 103 | 103 | 102 | 102 | 101 | 100 | 99 | 98 | 2.7 |
| East region (10.8 t/ha) | 106 | 105 | 104 | 103 | 104 | 104 | 103 | 103 | 103 | 104 | 103 | 102 | 101 | 101 | 100 | 99 | 98 | 3.1 |
| West region (10.7 t/ha) | 105 | 106 | 105 | 106 | 103 | 102 | 106 | 105 | 102 | 104 | 101 | 102 | 102 | 101 | 99 | 97 | | 3.4 |
| North region (9.9 t/ha) | [110] | [105] | 102 | [106] | 106 | [107] | 100 | 104 | 104 | 98 | 104 | 104 | 99 | 100 | [100] | 100 | | 4.3 |
| Untreated grain yield (% treated control) | | | | | | | | | | | | | | | | | | |
| United Kingdom (10.7 t/ha) | 84 | 86 | 88 | 88 | 81 | 92 | 88 | 76 | 69 | 88 | 80 | 77 | 85 | 77 | 74 | 80 | | 6.2 |
| Agronomic features | | | | | | | | | | | | | | | | | | |
| Resistance to lodging without PGR (1-9) | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | | 0.8 |
| Resistance to lodging with PGR (1-9) | 7 | 7 | 6 | 7 | 6 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | | 0.7 |
| Height without PGR (cm) | 84 | 86 | 90 | 92 | 89 | 93 | 86 | 81 | 86 | 85 | 91 | 86 | 82 | 88 | 77 | 80 | | 2.2 |
| Ripening (days +/- JB Diego, -ve = earlier) | +1 | -1 | -1 | 0 | 0 | +1 | -1 | -1 | +1 | +1 | +2 | 0 | +1 | 0 | -1 | 0 | | 0.7 |
| Resistance to sprouting (1-9) | - | - | [4] | - | [6] | - | [7] | [5] | 5 | [5] | 5 | 5 | [7] | 7 | 5 | 6 | | 0.9 |
| Disease resistance | | | | | | | | | | | | | | | | | | |
| Mildew (1-9) | 7 | 7 | 9 | 7 | 7 | 5 | 8 | 6 | 5 | 9 | 6 | 7 | 8 | 6 | [6] | 5 | | 2.1 |
| Yellow rust (1-9) | 7 | 8 | 6 | 9 | 7 | 7 | 8 | 3 | 6 | 9 | 8 | 9 | 9 | 5 | 6 | 8 | | 1.0 |
| Brown rust (1-9) | 7 | 4 | 5 | 7 | 8 | 6 | 5 | 9 | 5 | 5 | 8 | 6 | 5 | 6 | 5 | 7 | | 1.3 |
| Septoria nodorum (1-9) | [6] | [6] | [6] | [7] | [6] | [6] | [6] | [5] | 5 | [6] | [6] | [5] | [6] | 6 | [5] | [5] | | 0.7 |
| Septoria tritici (1-9) | 5.2 | 6.2 | 6.1 | 6.7 | 4.6 | 6.7 | 6.7 | 5.4 | 4.3 | 5.9 | 5.5 | 4.7 | 6.0 | 5.2 | 5.3 | 6.4 | | 0.7 |
| Eyespot (1-9) | [5] | [5] | 3 | [4] | 5 | [6]@ | 4 | 5 | 4 | 4 | 5 | 4 | 5 | 5 | 6@ | 4 | | 1.5 |
| Fusarium ear blight (1-9) | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | | 0.5 |
| Orange wheat blossom midge | R | - | - | - | - | - | - | R | R | R | - | - | - | - | - | - | | - |

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

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R = believed to be resistant to orange wheat blossom midge (OWBM) but this has not been verified in RL tests

@ believed to carry the *Pch1* Rendezvous resistance gene to eyespot but this has not been verified in RL tests

LSD = Least significant difference

Average LSD (5%): varieties that are more than one LSD apart are significantly different at the 95% confidence level.

AHDB Recommended List - Table 1

Winter Wheat 2017/18 - nabim Groups 1-3 and Soft Group 4

SUPPLEMENTARY DATA

| | RECOMMENDED | | NEW | C | C | * | * | C | * | NEW | NEW | NEW | NEW | NEW | NEW | Average LSD (5%) | | | | | | | | | | | |
|--|---------------|---------|-------------|-----------------|---------|---------|---------------|----------|----------|---------------|-----------|-----------|------------|--------------|---------|------------------|-------------|-----------|-----------|-----------|-----------|---------|----------|---------|------------|------------------|------|
| | KWS Zyatt | Skyfall | KWS Trinity | RGT Illustrious | Crusoe | Gallant | KWS Siskin | KWS Lili | Cordiale | KWS Barrel | Britannia | Spyder | KWS Basset | Zulu | Claire | Bennington | LG Sundance | Savello | LG Motown | Moulton | Hardwicke | Leeds | Viscount | Myriad | Revelation | Average LSD (5%) | |
| End-use group | nabim Group 1 | | | | | | nabim Group 2 | | | nabim Group 3 | | | | Soft Group 4 | | | | | | | | | | | | | |
| Scope of recommendation | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | E&W | UK | UK | UK | E&W | UK | N | UK | UK | N | UK | N | N | UK | | |
| Breeder/ UK contact | KWS | | RAGT | KWS | R2n | Lim | SyP | KWS | KWS | KWS | KWS | Lim | BA | KWS | Lim | Lim | ElsW | LimEur | SyP | LimEur | ElsW | Sej | Mom | KWS | Lim | Lim | |
| UK contact | KWS | RAGT | KWS | RAGT | Lim | Syn | KWS | KWS | KWS | KWS | Lim | Sen | KWS | Lim | Lim | Els | Lim | Syn | Lim | Els | KWS | KWS | KWS | Lim | Lim | | |
| Annual treated yield (% control) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2012 (9.0 t/ha) | - | 102 | 101 | - | 95 | 101 | - | 105 | 99 | - | 103 | - | - | 99 | [97] | - | - | - | - | - | - | - | 106 | 107 | 99 | 98 | 3.1 |
| 2013 (10.0 t/ha) | - | 102 | [97] | [100] | 97 | 92 | [100] | [99] | 96 | [101] | [99] | [101] | [99] | 98 | [98] | - | - | - | - | - | - | - | 101 | 98 | 98 | 99 | 3.4 |
| 2014 (11.7 t/ha) | 103 | 100 | 99 | 98 | 99 | 94 | 103 | 102 | 95 | 102 | 102 | 99 | 102 | 99 | [98] | 104 | 104 | 104 | 103 | 103 | 104 | 102 | 98 | 100 | 100 | 2.6 | |
| 2015 (11.7 t/ha) | 102 | 100 | 100 | 98 | 96 | 96 | 105 | 102 | 94 | 104 | 103 | 99 | 102 | 100 | [94] | 103 | 102 | 103 | 102 | 101 | 103 | 101 | 101 | 101 | 99 | 2.8 | |
| 2016 (10.7 t/ha) | 100 | 99 | 98 | 94 | 97 | [100] | 102 | 102 | 97 | 103 | 102 | 100 | 97 | 100 | [95] | 104 | 105 | 102 | 103 | 104 | 100 | 101 | 100 | 101 | 96 | 2.2 | |
| Rotational position | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First cereal (10.9 t/ha) | 101 | 100 | 99 | 97 | 97 | 97 | 104 | 103 | 97 | 103 | 102 | 100 | 100 | 99 | 97 | 104 | 103 | 103 | 103 | 103 | 102 | 102 | 101 | 100 | 99 | 2.9 | |
| Second and more (9.9 t/ha) | 103 | 101 | 99 | 98 | 96 | 95 | 102 | 100 | 95 | 103 | 102 | 99 | 101 | 99 | [96] | 103 | 104 | 105 | 103 | 102 | 103 | 101 | 99 | 99 | 98 | 3.3 | |
| Sowing date (most trials were sown in October) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Early sown (before 15th Sept) (10.9 t/ha) | - | 99 | 101 | [97] | 97 | 96 | - | [[105]] | - | 98 | - | 101 | 103 | [101] | 97 | [105] | - | - | - | - | - | - | [101] | 98 | - | 100 | 4.0 |
| Late sown (mid-Nov to end-Jan) (10.1 t/ha) | [97] | 98 | 99 | 97 | 96 | [95] | 102 | 104 | 96 | 104 | 102 | 100 | 100 | 101 | - | [99] | [[105]] | [102] | [102] | [101] | [[101]] | 103 | [[104]] | 104 | [98] | 4.5 | |
| Soil type (about 50% of trials are on medium soils) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Light soils (10.1 t/ha) | [100] | 100 | 99 | 95 | 95 | 92 | 102 | 104 | 94 | 106 | 102 | 99 | 99 | 101 | 96 | [100] | [104] | [103] | [106] | [103] | [102] | 104 | 101 | 102 | 99 | 5.2 | |
| Heavy soils (11.0 t/ha) | 102 | 101 | 99 | 98 | 98 | 97 | 103 | 102 | 96 | 102 | 102 | 100 | 100 | 99 | [94] | 105 | 103 | 102 | 102 | 102 | 101 | 101 | [[98]] | 99 | 98 | 3.5 | |
| Agronomic features | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lodging % without PGR | 1 | 1 | 1 | 2 | 1 | 2 | 5 | 1 | 1 | 1 | 11 | 7 | 2 | 9 | 6 | 3 | 4 | 6 | 6 | 4 | 3 | 2 | 2 | 7 | 2 | | |
| Lodging % with PGR | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 6 | 4 | 1 | 4 | 2 | 1 | 5 | 3 | 5 | 3 | 1 | 2 | 3 | 3 | 1 | | |
| Latest safe sowing date # | [Mid Feb] | End Feb | Mid Feb | [Mid Feb] | End Jan | Mid Feb | [End Jan] | Mid Feb | Mid Feb | [End Jan] | Mid Feb | [End Jan] | [End Jan] | Mid Feb | Mid Feb | [Mid Feb] | [End Jan] | [Mid Feb] | [End Jan] | [End Jan] | [Mid Feb] | End Feb | End Feb | Mid Feb | End Jan | | |
| Speed of development to growth stage 31 (days +/- average) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Early Sept sown | - | -5 | [-8] | [+5] | +3 | -2 | [-12] | [-3] | -1 | [+5] | [+2] | [+4] | [-7] | 0 | +3 | - | - | - | - | - | - | - | -4 | +4 | +4 | +7 | 14.2 |
| Early Oct sown | - | -4 | +2 | [+2] | -1 | -3 | [-6] | -1 | -4 | [+4] | -3 | [-2] | [-2] | +1 | +2 | - | - | - | - | - | - | - | -1 | +2 | +4 | +3 | 8.0 |
| Early Nov sown | - | 0 | [0] | [+1] | -2 | +1 | [-4] | [+1] | -2 | [+6] | [+1] | [-1] | [-2] | +2 | +2 | - | - | - | - | - | - | - | +1 | +2 | +3 | +4 | 4.0 |
| Status in RL system | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Year first listed | 17 | 14 | 15 | 16 | 12 | 09 | 16 | 15 | 04 | 16 | 15 | 16 | 16 | 14 | 99 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 13 | 09 | 13 | 13 | |
| RL status | P1 | - | - | P2 | - | * | P2 | - | - | P2 | * | P2 | P2 | - | * | P1 | P1 | P1 | P1 | P1 | P1 | P1 | - | - | - | - | |

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

UK = recommended for the UK

E&W = recommended for the East and West regions

N = recommended for the North region

= Latest safe sowing date is the advised latest sowing time to give a sufficient cold period for flowering.

Key to Breeder and UK contact codes

Agr = Agrii (www.agrii.co.uk)

BA = Blackman Agriculture

Bre = SaatZucht Josef Breun, Germany

DSV = DSV United Kingdom (www.dsv-uk.co.uk)

Els = Elsoms Seeds (www.elsoms.com)

KWS = KWS UK (www.kws-uk.com)

Lim = Limagrain UK (www.limagrain.co.uk)

LimEur = Limagrain Europe SA (www.limagrain.co.uk)

Mom = Momont, France

RAGT = RAGT Seeds, UK (www.ragt.co.uk)

R2n = RAGT, France (www.ragt.co.uk)

Sec = Secobra, France

Sej = Sejet, Denmark

Sen = Senova (www.senova.uk.com)

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

Syn = Syngenta UK Ltd (www.syngenta.co.uk)

SyP = Syngenta Participations AG (www.syngenta.co.uk)

LSD = Least significant difference

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SUPPLEMENTARY DATA

| | RECOMMENDED | NEW | NEW | NEW | NEW | | | | | C | | | | | | | | | | Average LSD (5%) | |
|--|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|-----|----|------------------|------|
| | Hard Group 4 | | | | | | | | | | | | | | | | | | | | |
| End-use group | E&W | UK | E&W | UK | UK | UK | UK | UK | UK | E&W | UK | UK | UK | UK | UK | UK | UK | E&W | | | |
| Scope of recommendation | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | UK | E&W | |
| Breeder/ UK contact | | | | | | | | | | | | | | | | | | | | | |
| Breeder | KWS | SyP | Sej | ElsW | KWS | ElsW | SyP | SyP | KWS | KWS | Sej | Sec | KWS | Bre | KWS | RAGT | | | | | |
| UK contact | KWS | Syn | SU | Els | KWS | Els | Syn | Syn | KWS | KWS | Lim | Agr | Sen | Sen | KWS | RAGT | | | | | |
| Annual treated yield (% control) | | | | | | | | | | | | | | | | | | | | | |
| 2012 (9.0 t/ha) | - | - | - | - | - | - | - | - | 112 | 105 | - | 102 | 101 | 105 | 100 | 101 | 96 | | | | 3.1 |
| 2013 (10.0 t/ha) | - | - | [105] | - | [101] | - | [101] | [99] | 104 | [99] | 102 | 105 | [99] | 100 | [97] | 100 | | | | | 3.4 |
| 2014 (11.7 t/ha) | 108 | 106 | 102 | 104 | 105 | 104 | 104 | 103 | 102 | 104 | 102 | 101 | 100 | 101 | [101] | [97] | | | | | 2.6 |
| 2015 (11.7 t/ha) | 105 | 104 | 102 | 103 | 104 | 105 | 101 | 101 | 104 | 101 | 102 | 101 | 102 | 101 | [99] | 100 | | | | | 2.8 |
| 2016 (10.7 t/ha) | 105 | 105 | 106 | 105 | 103 | 101 | 105 | 103 | 104 | 103 | 103 | 102 | 99 | 101 | [98] | 96 | | | | | 2.2 |
| Rotational position | | | | | | | | | | | | | | | | | | | | | |
| First cereal (10.9 t/ha) | 106 | 105 | 104 | 104 | 105 | 104 | 104 | 104 | 103 | 103 | 102 | 102 | 101 | 100 | 100 | 97 | | | | | 2.9 |
| Second and more (9.9 t/ha) | 107 | 107 | 103 | 105 | 103 | 105 | 101 | 102 | 104 | 100 | 103 | 102 | 100 | 101 | 98 | 99 | | | | | 3.3 |
| Sowing date (most trials were sown in October) | | | | | | | | | | | | | | | | | | | | | |
| Early sown (before 15th Sept) (10.9 t/ha) | - | - | - | - | - | [107] | [104] | [106] | 102 | - | - | 100 | 102 | 100 | 98 | 100 | | | | | 4.0 |
| Late sown (mid-Nov to end-Jan) (10.1 t/ha) | [106] | [101] | 104 | [101] | 103 | [101] | [102] | 103 | 105 | 104 | 103 | 103 | 99 | 99 | [101] | [96] | | | | | 4.5 |
| Soil type (about 50% of trials are on medium soils) | | | | | | | | | | | | | | | | | | | | | |
| Light soils (10.1 t/ha) | [107] | [106] | 102 | [105] | 106 | [106] | 101 | 104 | 104 | 101 | 104 | 103 | 101 | 100 | 96 | 97 | | | | | 5.2 |
| Heavy soils (11.0 t/ha) | 104 | 104 | 105 | 103 | 104 | 102 | 104 | 103 | 103 | 103 | 102 | 100 | 102 | 100 | [98] | 98 | | | | | 3.5 |
| Agronomic features | | | | | | | | | | | | | | | | | | | | | |
| Lodging % without PGR | 3 | 5 | 9 | 11 | 15 | 2 | 3 | 1 | 3 | 3 | 4 | 4 | 2 | 2 | 1 | 2 | | | | | |
| Lodging % with PGR | 2 | 3 | 6 | 4 | 8 | 2 | 2 | 0 | 2 | 5 | 3 | 3 | 0 | 2 | 1 | 1 | | | | | |
| Latest safe sowing date # | [End Jan] | [Mid Feb] | [End Jan] | [Mid Feb] | [End Jan] | [Mid Feb] | [End Jan] | [Mid Feb] | [End Jan] | [Mid Feb] | [Mid Jan] | [End Jan] | [End Jan] | [End Jan] | [End Jan] | [End Jan] | | | | | |
| Speed of development to growth stage 31 (days +/- average) | | | | | | | | | | | | | | | | | | | | | |
| Early Sept sown | - | - | [+2] | - | [-4] | - | [+5] | [0] | +8 | [-5] | 0 | -1 | [+3] | 0 | +7 | 0 | | | | | 14.2 |
| Early Oct sown | - | - | [-7] | - | [-6] | - | [-2] | +1 | +4 | [-7] | -1 | -3 | +1 | -1 | +2 | 0 | | | | | 8.0 |
| Early Nov sown | - | - | [0] | - | [-4] | - | [-2] | [-1] | +2 | [-6] | +1 | 0 | [-3] | -2 | +1 | +2 | | | | | 4.0 |
| Status in RL system | | | | | | | | | | | | | | | | | | | | | |
| Year first listed | 17 | 17 | 16 | 17 | 16 | 17 | 16 | 15 | 11 | 16 | 14 | 13 | 15 | 08 | 09 | 12 | | | | | |
| RL status | P1 | P1 | P2 | P1 | P2 | P1 | P2 | - | - | P2 | - | - | - | - | - | * | | | | | |

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

UK = recommended for the UK

E&W = recommended for the East and West regions

N = recommended for the North region

= Latest safe sowing date is the advised latest sowing time to give a sufficient cold period for flowering.

Key to Breeder and UK contact codes

Agr = Agrii (www.agrii.co.uk)

BA = Blackman Agriculture

Bre = Saatucht Josef Breun, Germany

DSV = DSV United Kingdom (www.dsv-uk.co.uk)

Els = Elsoms Seeds (www.elsoms.com)

ElsW = Elsoms Wheat Ltd (www.elsoms.com)

KWS = KWS UK (www.kws-uk.com)

Lim = Limagrain UK (www.limagrain.co.uk)

LimEur = Limagrain Europe SA (www.limagrain.co.uk)

Mom = Momont, France

RAGT = RAGT Seeds, UK (www.ragt.co.uk)

R2n = RAGT, France (www.ragt.co.uk)

Sec = Secobra, France

Sej = Sejet, Denmark

Sen = Senova (www.senova.uk.com)

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

Syn = Syngenta UK Ltd (www.syngenta.co.uk)

SyP = Syngenta Participations AG (www.syngenta.co.uk)

* = variety no longer in trials

[] = limited data

[] = very limited data

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 95% confidence level.