### Winter barley 2019/20

**Market options, yield and grain quality**

<table>
<thead>
<tr>
<th>End-use group</th>
<th>Scope of recommendation</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>N</th>
<th>UK</th>
<th>W</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
<th>UK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Two-row malting</strong></td>
<td>NEW</td>
<td>NEW</td>
<td>NEW</td>
<td>NEW</td>
<td>*</td>
<td>C</td>
<td>NEW</td>
<td>NEW</td>
<td>NEW</td>
<td>NEW</td>
<td>*</td>
<td>C</td>
<td>NEW</td>
<td>NEW</td>
<td>NEW</td>
<td>NEW</td>
<td>NEW</td>
</tr>
<tr>
<td><strong>Two-row feed</strong></td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>N</td>
<td>UK</td>
<td>W</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
</tr>
<tr>
<td><strong>Six-row feed</strong></td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>N</td>
<td>UK</td>
<td>W</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
<td>UK</td>
</tr>
</tbody>
</table>

**Fungicide-treated grain yield (% treated control)**

- **United Kingdom (9.9 t/ha)**
  - Electrum: 97%
  - Craft: 97%
  - SY Venture: 101%
  - KWS Gimlet: 104%
  - LG Mountain: 104%
  - LG Flynn: 104%
  - KWS Orwell: 103%
  - Valerie: 102%
  - Surge: 101%
  - KWS Infinity: 101%
  - KWS Creswell: 101%
  - KWS Tower: 101%
  - KWS Glacier: 101%
  - California: 100%
  - KWS Cassia: 99%
  - Belmont$: 99%
  - SY Baracooda$: 99%
  - SY Kingsbarn$: 98%
  - Bazooka$: 109%
  - Sunningdale$: 108%
  - Belfry$: 107%
  - KWS Astaire: 103%
  - Funky: 104%
  - Libra$: 105%
  - Average LSD (5%): 2.6

- **East region (9.9 t/ha)**
  - Electrum: 98%
  - Craft: 97%
  - SY Venture: 101%
  - KWS Gimlet: 106%
  - LG Mountain: 105%
  - LG Flynn: 104%
  - KWS Orwell: 102%
  - Valerie: 103%
  - Surge: 102%
  - KWS Infinity: 101%
  - KWS Creswell: 101%
  - KWS Tower: 101%
  - KWS Glacier: 101%
  - California: 100%
  - KWS Cassia: 99%
  - Belmont$: 99%
  - SY Baracooda$: 99%
  - SY Kingsbarn$: 99%
  - Bazooka$: 108%
  - Sunningdale$: 108%
  - Belfry$: 105%
  - KWS Astaire: 104%
  - Funky: 104%
  - Libra$: 104%
  - Average LSD (5%): 3.1

- **West region (9.9 t/ha)**
  - Electrum: 97%
  - Craft: 96%
  - SY Venture: 101%
  - KWS Gimlet: 102%
  - LG Mountain: 104%
  - LG Flynn: 103%
  - KWS Orwell: 101%
  - Valerie: 102%
  - Surge: 101%
  - KWS Infinity: 101%
  - KWS Creswell: 101%
  - KWS Tower: 101%
  - KWS Glacier: 101%
  - California: 100%
  - KWS Cassia: 98%
  - Belmont$: 110%
  - SY Baracooda$: 111%
  - SY Kingsbarn$: 110%
  - Bazooka$: 108%
  - Sunningdale$: 106%
  - Belfry$: 106%
  - KWS Astaire: 105%
  - Funky: 105%
  - Libra$: 104%
  - Average LSD (5%): 4.0

- **North region (9.8 t/ha)**
  - Electrum: 95%
  - Craft: 97%
  - SY Venture: 100%
  - KWS Gimlet: 105%
  - LG Mountain: 101%
  - LG Flynn: 102%
  - KWS Orwell: 98%
  - Valerie: 98%
  - Surge: 102%
  - KWS Infinity: 102%
  - KWS Creswell: 101%
  - KWS Tower: 102%
  - KWS Glacier: 97%
  - California: 97%
  - KWS Cassia: 110%
  - Belmont$: 106%
  - SY Baracooda$: 109%
  - SY Kingsbarn$: 106%
  - Bazooka$: 109%
  - Sunningdale$: 105%
  - Belfry$: 103%
  - KWS Astaire: 104%
  - Funky: 104%
  - Libra$: 104%
  - Average LSD (5%): 3.7

**Untreated grain yield (% treated control)**

- **United Kingdom (9.9 t/ha)**
  - Electrum: 80%
  - Craft: 77%
  - SY Venture: 84%
  - KWS Gimlet: 80%
  - LG Mountain: 83%
  - LG Flynn: 81%
  - KWS Orwell: 79%
  - Valerie: 74%
  - Surge: 75%
  - KWS Infinity: 77%
  - KWS Creswell: 80%
  - KWS Tower: 81%
  - KWS Glacier: 81%
  - California: 87%
  - KWS Cassia: 86%
  - Belmont$: 87%
  - SY Baracooda$: 88%
  - SY Kingsbarn$: 89%
  - Bazooka$: 87%
  - Sunningdale$: 91%
  - Belfry$: 91%
  - KWS Astaire: 90%
  - Funky: 90%
  - Libra$: 90%
  - Average LSD (5%): 3.4

**Main market options**

- MBC malting approval for brewing use: P = Full MBC approval, F = Provisional MBC approval

**Grain quality**

- Specific weight (kg/hl): 69.5
- Screenings (% through 2.25 mm): 2.4
- Screenings (% through 2.5 mm): 6.6
- Nitrogen content (%): 1.66

**Status in RL system**

- Year first listed: 18
- Variety no longer listed: Coref and Talisman.

**Comparisons of variety performance across regions are not valid.**

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

UK = Recommended for the UK
W = Recommended for the West region
N = Recommended for the North region
C = Yield control (for current table). For this table Talisman was also a yield control but is no longer listed.
* = Variety no longer in trials
$ = Hybrid variety
[] = Limited data

Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level.
## AHDB Recommended List - Table 7
### Winter barley 2019/20

### Yield, agronomy and disease resistance

<table>
<thead>
<tr>
<th>End-use group</th>
<th>Scope of recommendation</th>
<th>Two-row winter</th>
<th>Two-row spring</th>
<th>Six-row winter</th>
<th>Six-row spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td><strong>UK</strong></td>
<td>UK</td>
<td>NEW</td>
<td>UK</td>
<td>NEW</td>
</tr>
<tr>
<td>UK</td>
<td><strong>UK</strong></td>
<td>UK</td>
<td>NEW</td>
<td>UK</td>
<td>NEW</td>
</tr>
<tr>
<td>N</td>
<td><strong>UK</strong></td>
<td>UK</td>
<td>NEW</td>
<td>UK</td>
<td>NEW</td>
</tr>
<tr>
<td>N</td>
<td><strong>UK</strong></td>
<td>UK</td>
<td>NEW</td>
<td>UK</td>
<td>NEW</td>
</tr>
<tr>
<td>W</td>
<td><strong>UK</strong></td>
<td>UK</td>
<td>NEW</td>
<td>UK</td>
<td>NEW</td>
</tr>
<tr>
<td>W</td>
<td><strong>UK</strong></td>
<td>UK</td>
<td>NEW</td>
<td>UK</td>
<td>NEW</td>
</tr>
<tr>
<td><strong>= Recommended for the UK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td><strong>Recommended for the West region</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td><strong>Recommended for the North region</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comparative trials: two-year yield (% treated control)

<table>
<thead>
<tr>
<th>Location</th>
<th>Yield Control</th>
<th>Straw height without PGR (cm)</th>
<th>Straw height with PGR (cm)</th>
<th>Ripening (=&quot;RWS Onslow, -ve = earlier&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom (9.9 t/ha)</td>
<td>7</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>East region (9.9 t/ha)</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>West region (9.9 t/ha)</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>North region (9.9 t/ha)</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td><strong>= Recommended for the UK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Agronomic features

<table>
<thead>
<tr>
<th>Variety</th>
<th>Resistance to lodging (1–9)</th>
<th>Straw height without PGR (cm)</th>
<th>Straw height with PGR (cm)</th>
<th>Ripening (=&quot;RWS Onslow, -ve = earlier&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Craft</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Electrum</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Astaire</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Awen</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Tower</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Belmont</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Craft</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Electrum</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Astaire</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Awen</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Tower</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Belmont</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Craft</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Electrum</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Astaire</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Awen</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Tower</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Belmont</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Craft</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Electrum</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Astaire</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Awen</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>KWS Tower</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
<tr>
<td>Belmont</td>
<td>6</td>
<td>93</td>
<td>90</td>
<td>-1</td>
</tr>
</tbody>
</table>

### Disease resistance

<table>
<thead>
<tr>
<th>Disease</th>
<th>Summary</th>
<th>LSD = Least significant difference</th>
<th>LSD = Average LSD (5%)</th>
<th>LSD = Varieties that are more than one LSD apart are significantly different at the 95% confidence level.</th>
</tr>
</thead>
</table>

**UK** = Recommended for the UK

# = The winter hardness scores are taken from extreme tests in the Jura mountains of France and currently insufficient data for 1–9 ratings.

* = Variety no longer in trials

$ = Hybrid variety

[] = Limited data

Not added to Recommended List

Not added to RL
## AHDB Recommended List - Table 7
### Winter barley 2019/20

### Supplementary data

<table>
<thead>
<tr>
<th>End-use group</th>
<th>Two-row malting</th>
<th>Six-row feed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UK</td>
<td>UK</td>
</tr>
<tr>
<td>BREEDER/UK contact</td>
<td>SyP</td>
<td>SyP</td>
</tr>
<tr>
<td>UK contact</td>
<td>Syn</td>
<td>Syn</td>
</tr>
</tbody>
</table>

### Average yield (% control)

<table>
<thead>
<tr>
<th>Year</th>
<th>Light soils (10.0 t/ha)</th>
<th>Heavy soils (10.0 t/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>97.94</td>
<td>95.94</td>
</tr>
<tr>
<td>2017</td>
<td>93.98</td>
<td>105.16</td>
</tr>
<tr>
<td>2016</td>
<td>93.98</td>
<td>105.16</td>
</tr>
<tr>
<td>2015</td>
<td>93.98</td>
<td>105.16</td>
</tr>
</tbody>
</table>

### Agronomic characteristics

<table>
<thead>
<tr>
<th>Year 1 listed</th>
<th>Two-row feed</th>
<th>Six-row feed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Status in RL system

<table>
<thead>
<tr>
<th>Year 1 listed</th>
<th>RL status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>P2</td>
</tr>
</tbody>
</table>

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

- **UK** = Recommended for the UK
- **W** = Recommended for the West region
- **N** = Recommended for the North region
- **C** = Yield control (for current table), Tallisman was also a yield control but is no longer listed.
- **$** = Variety no longer in trials
- **S** = Hybrid variety
- **LSD** = Least significant difference

---

**UK** = Recommended for the UK

**W** = Recommended for the West region

**N** = Recommended for the North region

**C** = Yield control (for current table)

---

**Recommended List**

**Not added to RL**

**Hybrid variety**

**Breeder**

**UK contact**

**End-use group**

**Light soils (10.0 t/ha)**

**Heavy soils (10.0 t/ha)**

**Agronomic characteristics**

**Status in RL system**

**Year 1 listed**

---

**Recommended List**

**Not added to RL**

**Hybrid variety**

**Breeder**

**UK contact**

**End-use group**

**Light soils (10.0 t/ha)**

**Heavy soils (10.0 t/ha)**

**Agronomic characteristics**

**Status in RL system**

**Year 1 listed**

---

**Recommended List**

**Not added to RL**

**Hybrid variety**

**Breeder**

**UK contact**

**End-use group**

**Light soils (10.0 t/ha)**

**Heavy soils (10.0 t/ha)**

**Agronomic characteristics**

**Status in RL system**

**Year 1 listed**

---

**Recommended List**

**Not added to RL**

**Hybrid variety**

**Breeder**

**UK contact**

**End-use group**

**Light soils (10.0 t/ha)**

**Heavy soils (10.0 t/ha)**

**Agronomic characteristics**

**Status in RL system**

**Year 1 listed**

---

**Recommended List**

**Not added to RL**

**Hybrid variety**

**Breeder**

**UK contact**

**End-use group**

**Light soils (10.0 t/ha)**

**Heavy soils (10.0 t/ha)**

**Agronomic characteristics**

**Status in RL system**

**Year 1 listed**

---