### BTS 4100
**THE SWEETEST THING**

- The highest sugar content available: 18.4%
- High adjusted tonnes: 101.8%
- High sugar yield: 101.5%
- Excellent ESB and NSB characteristics
- Rhizomania tolerant

**Breeders Comment:**
"BTS 4100 has very high inherent sugar content, offering growers that have difficulty achieving high sugar content on certain soil types or in challenging field conditions, the opportunity to maximise yield potential.

BTS 4100 has excellent early sowing characteristics with low ESB and zero NSB counts, combined with good agronomic characteristics."

### BTS 3325
**THE EARLY STARTER**

- Consistent performer in trials and on farm
- High adjusted tonnes: 101.5 %
- High sugar yield: 101.3 %
- Very high sugar content: 18.2%
- Good ESB and NSB characteristics
- Rhizomania tolerant

**Breeders Comment:**
"BTS 3325 has good early sown bolting tolerance, outyielding many of the traditional varieties in this early drilling slot. It has very high sugar content and good overall disease resistance. BTS 3325 performs consistently on farm, making it a preferred variety of growers looking for security in a sugar beet variety."

**Sowing period**
- **BTS 4100:** March
- **BTS 3325:** March
RECOMMENDED LIST OF SUGAR BEET VARIETIES 2020
(Based on trials from 2016-2018)

<table>
<thead>
<tr>
<th>BREEDER/UK CONTACT</th>
<th>RECOMMENDED VARIETIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTS KWS</td>
<td>Sabatina KWS</td>
</tr>
<tr>
<td>LG KWS</td>
<td>KWS</td>
</tr>
</tbody>
</table>

**Crop Yields**

<table>
<thead>
<tr>
<th>Status:</th>
<th>Control Varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td>C=100%</td>
<td>R (C)</td>
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</table>

**Bolters per 100,000 plants/ha**

<table>
<thead>
<tr>
<th>Bolters per 100,000 plants/ha</th>
<th>Mean</th>
<th>95% LSD</th>
<th>99.9% LSD</th>
</tr>
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<tbody>
<tr>
<td><strong>SAFETY</strong></td>
<td>-</td>
<td>-</td>
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**Disease**

- **Rust**
- **Leaf Infection**
- **Low Yield Infection**

**Control**

- **Before 5 March**

**Pre-Gapping Establishment**

- **Before Mid March**

**Observations taken from inoculated trials not taken to yield.**

1. Newly listed varieties (PR1/PS1) have results from three years using approximately 2 kg breeders’ seed. Thereafter commercial seed should be used in RL trials.
2. Yields based on an average plant population of 106,000 plants/ha in these trials. Differences in yields of less than 4% should be treated with reserve.
3. The bolters from normal sowings are applicable for sowing after mid-March in most seasons.
4. Differences of 4% or less in the variety establishment scores are not statistically significant.
5. Observations taken from inoculated trials not taken to yield.
6. BTS = Betaseed, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, STR = Strube Sugar Beet UK Ltd, SV = SESVanderHave UK Ltd, MH = MariboHilleshog

(L) = Limited data. Full dataset available at www.bbro.co.uk
Since the withdrawal of neonicotinoid pesticides in 2019 the industry has to focus on cultural practices combined with a range of foliar insecticides to combat virus yellows. Virus yellows is a complex of 3 viruses (BMYV, BChV, BYV) which are transmitted when aphids feed on the young developing plant. Younger crops are more susceptible and the aim for growers is to get the crop to the critical stage as quickly as possible, turned as mature plant resistance. Planting the beet crop into good, warm seedbeds with available moisture will ensure rapid germination and fast plant establishment. A slower growth may find that the developing crop is more at risk, due to the period of growth to critical stage. For the 2019 season, we now have 2 new foliar insecticides available which will provide growers with up to 3 sprays to control aphids. 1 spray of the previously approved flonicamid (Teppeki) and up to 2 applications of thiacloprid (Biscaya). More info: bbro.co.uk/research/neonic-update/

Sowing period

March

April

**BTS 1140**

Extremely high adjusted tonnes: 104.9%

Extremely high sugar yield: 104.9%

High sugar content: 18.0%

Rhizomania tolerant

Breeders Comment:

"BTS 1140 offers a significant yield advantage over many varieties on the new BBRO Recommended List. Internal and Recommended List trials data over several years suggest that BTS 1140 should not be sown early - a later drilling date is advisable. BTS 1140 also has a high sugar content, combined with good foliar disease tolerance."

Sugar beet growers choose a variety based on adjusted tonnes to ensure optimum returns are achieved on farm. Growers have some degree of control regarding both root yield and sugar content potential through selecting the appropriate variety.

Looking at the graph above BTS varieties offer growers good root yield with above average sugar content to ensure high adjusted tonnes is achieved.

**Chart 1: Sugar Content % vs. Adjusted Tonnes (% of C = 100%)**
**VARIETY POSITIONING FOR YOUR CHOSEN ROUTE**

**BTS 4100**
High yielding early sowing variety, with the highest sugar content

**BTS 1140**
Extremely high yielding, pushing yield boundaries

**BTS 3325**
Reliable high yielding variety with very high sugar content, suitable for early sowing

**BREEDERS SOWING PERIOD ADVICE**

<table>
<thead>
<tr>
<th>Variety</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
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<tbody>
<tr>
<td>BTS 4100</td>
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<td>BTS 3325</td>
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Note: any rating shown in this publication has been extracted from the 2020 BBRO Sugar Beet Recommended List.