Sugar Beet Guide 2021
The best varieties for the UK

NEW! WITH CONVISO® SMART

SEEDING THE FUTURE SINCE 1856
Welcome to KWS’ Sugar Beet Guide 2021

KWS breeding continues to provide UK growers exceptional choice for their sugar beet crop with new high yielding, low bolting varieties added for the 2021 drilling season.

The rate of yield improvement has been a cornerstone of sugar beet breeding for many years and the bar has raised with high yielding varieties such as DAPHNA now part of the control group.

But with more on offer from KWS than just varieties to support you and your crop through the growing season we’ve changed the format of our traditional Variety Guide to provide you information about:

- Sugar Beet Varieties for 2021 drilling
- CONVISO® SMART varieties
- EPD 2.0 seed treatment
- Beet Seed Service
- Beet Cyst Nematodes
- Virus Yellows
- Beet Leaf Scan App

We hope you find the Sugar Beet Guide 2021 useful and informative.

Good luck for a safe and productive crop in 2021

Ben Bishop
Country Manager Sugar Beet UK
**Don’t miss out on yield progress!**

*AYPR resistant variety
**CONVISO ® SMART variety
Source: BBRO recommended list of Sugar Beet varieties 2021

<table>
<thead>
<tr>
<th>Variety</th>
<th>Status</th>
<th>CROP YIELDS</th>
<th>BOLTERS per 100,000 plants/ha</th>
<th>PRE-GAPPING ESTABLISHMENT</th>
<th>DISEASE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Adjusted tonnes % of control varieties of the BBRO RL 2021</td>
<td>MEAN</td>
<td>MEAN</td>
<td>1 = high; 9 = very low (leaf infection)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjusted tonnes % of C=100 %</td>
<td>2</td>
<td>102.6</td>
<td>99.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sugar yield % of C=100 %</td>
<td>2</td>
<td>102.6</td>
<td>100.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Root yield % of C=100 %</td>
<td>2</td>
<td>102.6</td>
<td>104.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sugar content %</td>
<td>2</td>
<td>17.8</td>
<td>17.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BOLTERS per 100,000 plants/ha</td>
<td>MEAN</td>
<td>294</td>
<td>104.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PRE-GAPPING ESTABLISHMENT</td>
<td>4</td>
<td>Control</td>
<td>100.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DISEASE</td>
<td>5</td>
<td>Rust</td>
<td>4.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Powdery mildew</td>
<td>5.5</td>
<td>5.6</td>
<td>5.0</td>
</tr>
</tbody>
</table>

Mean of control values include BTS 860 which is no longer listed.

* Newly listed varieties (AYPR / BCN / ALS) have results from three years using approximately 2 kgs breeder’s seed.
* Thereafter commercial seed should be used in RL trials. (See supplementary tables).
* Ratings based on an average plant population of 103,100 plants/ha in these trials.
* The ratings from normal sowings are applicable for sowing after mid-March in most seasons.
* Differences in establishment of less than 3.7 % should be treated with reserve.
* Observations taken from inoculated trials that are not taken to yield.

Source: Taken from the BBRO recommended list of Sugar Beet varieties (Based on trials from 2017 – 2019)

Full data set can be found at: www.bbro.co.uk
What's the additional yield worth to you?

<table>
<thead>
<tr>
<th>Variety</th>
<th>Actual Yield (t/ha)</th>
<th>Margin over Variety A (£/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SABATINA KWS</td>
<td>75.93</td>
<td>52.51</td>
</tr>
<tr>
<td>ADVENA KWS</td>
<td>75.43</td>
<td>47.34</td>
</tr>
<tr>
<td>KORTESSA KWS</td>
<td>75.75</td>
<td>42.45</td>
</tr>
<tr>
<td>DAPHNA</td>
<td>76.43</td>
<td>56.62</td>
</tr>
</tbody>
</table>

Differences in yield are due to differences in quality and the KWS EPD seed treatment.

Seed cost details:

- Seed cost Variety A: £205.88 (£171.57 per unit × 1.2 units/ha)
- Seed cost SABATINA KWS: £218.14 (£181.78 per unit × 1.2 units/ha)
- Seed cost ADVENA KWS: £218.14 (£181.78 per unit × 1.2 units/ha)
- Seed cost KORTESSA KWS: £218.14 (£181.78 per unit × 1.2 units/ha)
- Seed cost DAPHNA: £238.44 (£198.70 per unit × 1.2 units/ha)

Assumed beet price: £20.99 per tonne

75 t/ha was used as the base yield. Varieties that yield more than 100% do yield more than 75 t/ha in this example.

With EPD your crop hits the ground running

EPD seed treatment is the result of years of development by KWS. It is a complete system approach combining KWS specific seed preparation methods and seed coating components. This results in early and homogenous emergence of seed as well as improved early plant vigour – essential to a high yielding crop.

The benefits of choosing EPD for your sugar beet:
- Fast and even germination
- Fast and even field emergence
- Early and rapid plant development for early plant vigour
- The best start to reach plant maturity and fast row closure

The KWS seed technology

With EPD your crop hits the ground running

The KWS seed lot specific processing and pelleting allows the highest level of quality control. Germination and emergence testing is completed under optimal and stress conditions at all stages to deliver you the best product.

EPD seed treatment is the result of years of development by KWS. In contrast to simple pre-treatment of seeds, EPD is a complete system approach which combines KWS specific seed preparation methods and seed coating components. This results in early and homogenous emergence of seed as well as improved early plant vigour – essential to a high yielding crop.

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DAPHNA

- The first choice for BCN tolerance
- Low early sown bolters
- No need to compromise on yield

DAPHNA disproves the misconception of having BCN tolerance means lower yields.

With low bolters in the early sown window, good disease resistances and of course BCN tolerance, DAPHNA is suited to all farm situations and locations.

No compromise to have BCN tolerance with DAPHNA

Source: BBRO recommended list of Sugar Beet varieties 2021 (Based on trials from 2017 – 2019)

SABATINA KWS

- Proven performance over the growing season
- Consistently high adjusted yields
- Good for late lifting

SABATINA KWS is continuing to prove a consistent variety which has gained a loyal following through the campaigns. After six different seasons on farm you can see why it has become such a popular variety.

With noted yield increases in November in BBRO trials in 2017 and 2018, SABATINA KWS is expected to be a continued inclusion on seed order forms.

SABATINA KWS consistently achieving 100+ tonnes per hectare

Source: Recommended list of sugar beet varieties 2021 (based on trials from 2017 – 2019) & supplementary data for the sugar beet r l varieties for 2018
The well rounded BCN partner

CANTONA KWS is still an excellent performer and the useful second choice variety for those suffering with positive BCN samples. With its high sugar content of 18% CANTONA KWS is a good choice for those further away from the factories. A competitive disease package to rust and powdery mildew combined with good early sown performance widens the appeal of CANTONA KWS.

CANTONA KWS offers a robust disease package in the BCN segment

BBRO disease scoring (1 = high leaf infection; 9 = very low leaf infection)

<table>
<thead>
<tr>
<th>Disease</th>
<th>CANTONA KWS R(C)</th>
<th>DAPHNA R(C)</th>
<th>Lacewing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rust</td>
<td>2</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Mildew</td>
<td>2</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

Source: BBRO recommended list of Sugar Beet varieties 2021 (Based on trials from 2017–2019)

What are Beet Cyst Nematodes (BCN)?

1 mm long eelworms that invade and feed from the root cells. Each cyst holds up to 200 eggs and larvae.

The first 10% of yield losses mostly shows no visible symptoms.

Regularly check soil and crop for BCN infestation. Annual soil sampling will indicate population levels.

BCN infestation decreases by approx. –40% per year in non-host plants. A wide crop rotation helps to reduce infestation.

There are now no yield penalties for BCN tolerant varieties. Drip BCN tolerant varieties alongside non-tolerant varieties in suspected fields. Monitor for any differences during the season.
Virus Yellows

Yield loss by Virus Yellows infection
With the loss of neonicotinoid sugar beet seed treatment, Virus Yellows present a serious threat to the sugar beet crop. When we talk about Virus Yellows we use the term to include different yellowing viruses. The most relevant viruses are Beet Yellows Virus (BYV) with a potential yield loss up to 49% and Beet Mild Yellowing Virus (BMYV) being able to reduce yields up to 30%. In many cases infection with both viruses is found. Virus Yellows is spread in almost all sugar beet growing countries.

Aphids as virus transmitter
Virus Yellows is mainly transmitted by the Peach Potato aphid (Myzus persicae) and the Black Bean aphid (Aphis fabae). To acquire and spread the virus a minimum feeding time of 5 – 10 minutes is necessary. Favourable conditions are mild winters allowing the adults and host crops (e.g. beet or weeds such as Fat hen, Shephard’s purse) to survive and thus cause early infections in sugar beet. In general, the earlier the infection the higher the yield loss.

Virus Yellows – an integrated approach to control
Control of Virus Yellow requires an integrated approach including the development of tolerant sugar beet varieties and cultural controls. KWS’ current breeding focus comprises greenhouse and field trials to develop varieties with multiple tolerances. Virus Yellow tolerant varieties are in the early stages of variety trials in the UK and until these pass through the Listing process, cultural control measures should be taken:

- **Check your crop** – also refer to the BBRO Aphid Survey Map to check the number of aphids in your region
- **12 true leaves** – early and well developed sugar beet can reduce migration of aphids and slow the spread of virus in adult plants
- **Field hygiene** – removal of crop debris, ground keepers and weeds after sugar beet harvest to reduce host crops
- **Chemical treatment** – foliar insecticides according to your agronomist’s recommendation and thresholds

Source: KWS Agroservice
Source: Bayer AG – Division Crop Science
Source: Courtesy of BBRO
EVALOTTA KWS

- Our highest yielding variety*
- Very low bolting in normal sown window
- Strong performance in untreated disease trials in 2018 & 2019*

> 2021 BBRO Recommended List

Pushing yields!

New for 2021 EVALOTTA KWS is our highest yielding variety – even beating DAPHNA!

Offering its best performance when drilled from mid March, EVALOTTA KWS performed strongly in Recommended List untreated trials in 2018 & 2019 which will give confidence to growers looking to protect their yields from foliar diseases.

EVALOTTA KWS is a sound choice for 2021.

Pushing yields

Adjusted tonnes % of control varieties

<table>
<thead>
<tr>
<th>Variety</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>3yr mean</th>
<th>Mean of controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVALOTTA KWS</td>
<td>104</td>
<td>102</td>
<td>101</td>
<td>102.3</td>
<td>100</td>
</tr>
<tr>
<td>DAPHNA (C)</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>98.0</td>
<td>98</td>
</tr>
<tr>
<td>SABATINA KWS (C)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100.0</td>
<td>100</td>
</tr>
<tr>
<td>CANTONA KWS (C)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100.0</td>
<td>100</td>
</tr>
<tr>
<td>BTS 3325 R(C)</td>
<td></td>
<td>98</td>
<td>98</td>
<td>98.0</td>
<td>98</td>
</tr>
</tbody>
</table>

Source: BBRO recommended list of Sugar Beet varieties 2021 (Based on trials from 2017 – 2019)

KORTESSA KWS

- Excellent yield
- Low bolting
- Excellent rust resistance

The variety with all the answers

Very high yields? Suitable for early drilling? Outstanding rust resistance? KORTESSA KWS answers yes to all three!

Yielding comfortably above controls above with an incredibly clean canopy KORTESSA KWS is suitable for almost any situation on farm.

With very low early sown bolters combined with an excellent rust score of 7.7*, KORTESSA KWS is the number one choice to utilise the longest growing period.

KORTESSA KWS shows very low rust infection levels

% Leaf infection with rust

<table>
<thead>
<tr>
<th>Year</th>
<th>Mean of controls</th>
<th>KORTESSA KWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>2018</td>
<td>25</td>
<td>17</td>
</tr>
<tr>
<td>2019</td>
<td>20</td>
<td>17</td>
</tr>
</tbody>
</table>

Source: BBRO recommended list of Sugar Beet varieties 2021 (Based on trials from 2017 – 2019)
ADVENA KWS

- Very low bolting
- High sugar content – 18.0% *
- High yielding

* 2021 BBRO Recommended List

SANCHA KWS

- Excellent bolting for normal and early sowing
- Top 10 for adjusted yield *
- High sugar content

* 2021 BBRO Recommended List

The all rounder

ADVENA KWS delivers strong yields and bolting performance.

With low early sown bolters meaning growers can drill in confidence before mid-March, ADVENA KWS will be a popular choice for a long growing season while a high sugar content of 18% will favour growers needing their beet further to the sugar factory.

SANCHA KWS – Ultra low early sown bolters

New for 2021 SANCHA KWS delivers good yields and outstanding bolting performance.

With one of the lowest early sown bolting scores on the RL SANCHA KWS will be a popular with growers who like to drill their beet early in the season. A solid disease resistance package and sugar content make SANCHA KWS a good choice for 2021.

ADVENA KWS – High yield, high sugar and low bolting all in one package

Sugar content %

<table>
<thead>
<tr>
<th>Year</th>
<th>ADVENA KWS</th>
<th>SABATINA KWS R (C)</th>
<th>Mean of trials</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>16</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>2018</td>
<td>17</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>2017</td>
<td>18</td>
<td>Mean</td>
<td>Mean</td>
</tr>
</tbody>
</table>

Source: BBRO recommended list of Sugar Beet varieties 2021 (Based on trials from 2017 – 2019)

SANCHAK WS – Ultra low early sown bolters

Early Sown Bolters per hectare

<table>
<thead>
<tr>
<th>Variety</th>
<th>Early Sown Bolters per hectare</th>
</tr>
</thead>
<tbody>
<tr>
<td>SANCHA KWS</td>
<td>2000</td>
</tr>
<tr>
<td>DAPHNA R (C)</td>
<td>3000</td>
</tr>
<tr>
<td>SABATINA KWS R (C)</td>
<td>4000</td>
</tr>
<tr>
<td>CANTONA KWS R (C)</td>
<td>0</td>
</tr>
<tr>
<td>BTS 3325 R (C)</td>
<td>Mean of controls</td>
</tr>
</tbody>
</table>

Source: BBRO recommended list of Sugar Beet varieties 2021 (Based on trials from 2017 – 2019)
BEETSEED SERVICE
Your partner if you need to re-sow

The Beet Seed Service is available to all growers of KWS varieties with EPD treated seed. The decision of re-sowing sugar beet is a last resort, not a decision to be taken lightly. A wide range of issues can cause an uneconomic plant stand within the establishing crop such as frost, windblow and pest damage.

To complement our offer of EPD treated seed for UK growers, we are offering KWS Beet Seed Service to provide a peace of mind if re-sowing is necessary.

The Principle of the Beet Seed Service
Should you need to re-sow your beet crop we will offer the replacement seed at 50% of the initial sale price of the seed.

For example, if you were to spend £180 per unit on KWS EPD treated seed and needed to re-sow, the seed cost for re-sowing would be £90 per unit.

The steps for using the Beet Seed Service
1. Ensure you have EPD treated seed.
2. Register for myKWS online.
3. Enter the field details in the Beet Seed Service portal.
4. Only if necessary, you can register a claim for poor establishment, and we will discuss your options.
5. If re-sowing is required KWS shall supply new seed directly and invoice at 50% of your initial invoice price.
KWS Leaf Scanner: identifying leaf diseases in sugar beet

KWS and the German Information System for Integrated Plant production (ISIP e.V.) jointly developed a new app for smartphones to identify leaf spot diseases in sugar beet.

The KWS Leaf Scanner supports you in the field to identify leaf diseases in your sugar beet. The five most common leaf spot diseases in sugar beet are:

- Cercospora (Cercospora beticola)
- Ramularia (Ramularia beticola)
- Beet rust (Uromyces betae)
- Bacterial leaf spot (Pseudomonas syringae)
- Phoma leaf spot (Phoma betae)

Once the leaf spot has been scanned the app provides further details on the disease and advice on how to control it.

Download the app from the store or just scan the QR-Code.

Your benefits

1. Analysis and identification of leaf spot diseases

2. Further information on
   - Symptoms
   - Favourable conditions
   - Control
   - Similar diseases

The best choice for AYPR Rhizomania situations

With adjusted yields higher than controls *, PHILINA KWS means there is no longer a yield penalty for those growers suffering from soils containing the AYPR strain of rhizomania.

Containing the Rz2 gene in addition to the standard Rz1 all other varieties in the recommended list have, PHILINA KWS has double rhizomania protection and provides growers the only tool to beat the problem.

It is the variety to choose is aggressive rhizomania is affecting your business performance.

PHILINA KWS – Very high yield and AYPR resistance in the same variety

<table>
<thead>
<tr>
<th>Adjusted tonnes % of control varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILINA KWS</td>
</tr>
<tr>
<td>SABATINA KWS R(C)</td>
</tr>
<tr>
<td>Mean of controls</td>
</tr>
<tr>
<td>101</td>
</tr>
<tr>
<td>100.5</td>
</tr>
<tr>
<td>100</td>
</tr>
<tr>
<td>99.5</td>
</tr>
<tr>
<td>99</td>
</tr>
</tbody>
</table>

Source: Recommended list of sugar beet varieties 2021 3 year data (Based on trials from 2017 – 2019)
CONVISO® SMART – Innovating Weed Control in Sugar Beet

CONVISO® SMART is a revolutionary weed control system for sugar beet growers, providing a step forwards in managing your crops.

### SMART KWS seeds
Innovative sugar beet hybrids tolerant to a new ALS-inhibitor based herbicide

### CONVISO® ONE herbicide
A new broad-spectrum herbicide in sugar beet based on ALS-inhibitors

### SMART CHOICE
More flexible and efficient weed control
- Broad weed spectrum including weed beet
- More independent from growth stage of the beet and growth conditions of the beet
- More independent from weather conditions before and after the application
SMART RIVETTA KWS

- Highest yielding herbicide tolerant variety available* 
- Best drilled from mid-March onwards 
- For use with the CONVISO® SMART weed control system for sugar beet 
* 2021 BBRO Recommended List

NEW SMART RIVETTA KWS

The original game changer

Bred specifically to be used in the CONVISO® SMART weed control system for sugar beet, SMART JANNINKA KWS is the first herbicide tolerant variety to enter the BBRO Recommended List to provide the next step in weed control. Offering its best performance when drilled from mid-March onwards and using the dedicated CONVISO® ONE herbicide, SMART JANNINKA KWS is the choice for more convenient, more effective weed control in sugar beet.

The second herbicide tolerant variety added to the Recommended List, SMART RIVETTA KWS offers a useful increase in yield for the CONVISO® SMART technology. In addition an improved disease resistance package – particularly powdery mildew make SMART RIVETTA KWS a good choice for growers in 2021.

With one of the lowest early bolting scores on the 2021 RL, SMART RIVETTA KWS is below the threshold for early sown drilling but it is recommended to drill CONVISO® SMART varieties from mid March onwards to limit vernalisation.

Leading the field in CONVISO® SMART yield**

Adjusted tonnes % Controls (when used with classical herbicides)

<table>
<thead>
<tr>
<th>100</th>
<th>95</th>
<th>90</th>
<th>85</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART RIVETTA KWS</td>
<td>SMART JANNINKA KWS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Recommended list of sugar beet varieties 2021 3 year data (Based on trials from 2017 – 2019)
** Currently the Recommended List trials use a classical herbicide programme on the ALS tolerant varieties. SMART RIVETTA KWS will be used with the dedicated CONVISO® ONE herbicide, with improved crop safety and weed control providing a yield benefit over classical herbicides.

SMART JANNINKA KWS – for the CONVISO® SMART weed control system

Adjusted tonnes %

<table>
<thead>
<tr>
<th>100</th>
<th>95</th>
<th>90</th>
<th>85</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART JANNINKA KWS with CONVISO® ONE</td>
<td>Classical hybrids with classic herbicides</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: CONVISO® SMART System Trials, 2018 & 2019; KWS (plots harvested and analysed by BBRO)
# KWS Contacts

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Phone 1</th>
<th>Phone 2</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Brown</td>
<td>Agroservices Manager Sugar Beet UK</td>
<td>01763 207304</td>
<td>07972 647224</td>
<td><a href="mailto:martin.brown@kws.com">martin.brown@kws.com</a></td>
</tr>
<tr>
<td>Ben Bishop</td>
<td>Country Manager Sugar Beet UK</td>
<td>01763 207304</td>
<td>07717 844441</td>
<td><a href="mailto:ben.bishop@kws.com">ben.bishop@kws.com</a></td>
</tr>
<tr>
<td>John Emerson</td>
<td>Technical advice</td>
<td>01763 207304</td>
<td>07738 001034</td>
<td></td>
</tr>
<tr>
<td>James Kennedy</td>
<td>Farm visits and technical advice</td>
<td>01763 207304</td>
<td>07813 662847</td>
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<tr>
<td>Adrian Freeman</td>
<td>Farm visits and technical advice</td>
<td>01763 207304</td>
<td>07748 807107</td>
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<tr>
<td>Steve Mackinder</td>
<td>Farm visits and technical advice</td>
<td>01763 207304</td>
<td>07523 382940</td>
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<tr>
<td>John Goodchild</td>
<td>Farm visits and technical advice</td>
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<td>07836 525363</td>
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<tr>
<td>Jonathan Pilbrow</td>
<td>Farm visits and technical advice</td>
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<td>07393 985457</td>
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<tr>
<td>Angus Kennedy</td>
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<tr>
<td>Nick Wells</td>
<td>Farm visits and technical advice</td>
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<td>07768 608897</td>
<td></td>
</tr>
</tbody>
</table>

**KWS UK Limited**

56 Church Street  
Thriplow  
Royston  
Hertfordshire  
SG8 7RE  
www.kws-uk.com

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