



# Quench

Spring Malting Barley

Parentage: Sebastian x Drum  
Status: HGCA Recommended List 2010

The number 1 spring malting barley across Europe

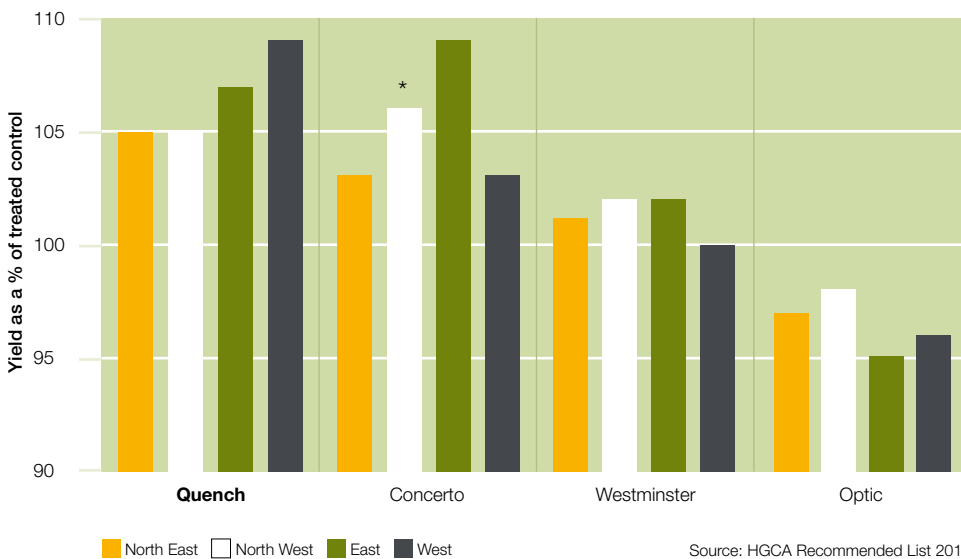
## Yield potential

Quench is the highest yielding spring malting barley with full IBD approval for brewing: a massive 10% higher yielding than Optic, equivalent to 0.7 tonnes per hectare.

Variety	UK Treated Yield % (7.2 t/ha)	UK Untreated Yield %
Quench	107	94
Concerto	105	92
Westminster	101	94
Optic	97	80

Source: HGCA Recommended List 2010

Quench has produced excellent yields across all regions of the UK, demonstrating that it is a very consistent variety to grow.



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Syngenta is one of the world's leading companies with more than 24,000 employees in over 90 countries dedicated to our purpose: Bringing plant potential to life.

## Disease resistance

Quench has excellent resistance to Rhynchosporium and mildew. Brown rust needs to be managed.

Variety	Mildew	Brown Rust	Yellow Rust	Rhynchosporium
Quench	9	4	4	8

Source: HGCA Recommended List 2010

## Fungicide use

Always consult your agronomist and adapt programmes to local conditions.

Getting early to mid-season agronomy right is crucial to establishing a healthy crop.

T0 – Not normally required.

T1 – Key application timing to protect the canopy during the plants' main burst of growth.

T2 – To ensure the crop is healthy at harvest, protecting the grain fill and green leaf areas, vital for maintaining grain quality.

### CORE PROGRAMME

T1 – Kayak + triazole GS30 (will give control of a broad spectrum of diseases).

T2 – Amistar Opti + triazole GS39-45 (protection against foliar disease and control of biotic and abiotic spotting).

### REGIONAL PROGRAMMES

#### West of England

T1 – Kayak 0.75 lt/ha + Proline 0.3 lt/ha or Opus 0.4 lt/ha

T2 – Amistar Opti 1.0 lt/ha + Proline 0.3 lt/ha or Opus 0.4 lt/ha

#### South & East England

T1 – Kayak 0.75 lt/ha or Opus 0.4 lt/ha + Amistar Opti 1.0 lt/ha

T2 – Amistar Opti 1.0 lt/ha + Opus 0.4 lt/ha

## Agronomic information

Quench is a relatively short and very stiff variety with excellent resistance to lodging and brackling. Quench has a similar maturity to Optic.

Variety	Resistance to lodging	Straw height (cm)	Ripening (+/- Optic, -ve=earlier)	Resistance to brackling
Quench	8	72	0	8

Source: HGCA Recommended List 2010

## Growth habit

**Early spring:** Semi prostrate

**Tillering ability:** Medium

**Maturity:** Medium-Late (Optic type)

## Drilling dates

**Suitability for early drilling:** Good

**Suitability for late drilling (April):** Good

**Optimum drilling date:** February to March (Scotland). January to February (England).

## Recommended sowing rates

Seed rates are dependent on soil conditions at the time of drilling. The more difficult the environment the higher the seed rates should be to compensate for potential plant loss.

Quench is a **very** adaptable and robust variety which suits many field situations. Syngenta Seeds trial results confirm that in good conditions there are no detrimental effects to Quench's yield or grain quality by altering seed rates.

The table below shows the suggested number of seeds per square metre that should be planted under good conditions. These figures should always be used in conjunction with the thousand grain weight of the seed.

	Dec/Jan	February	March	April
ENGLAND	325	350	350	350-375
SCOTLAND	N/A	350	375	400

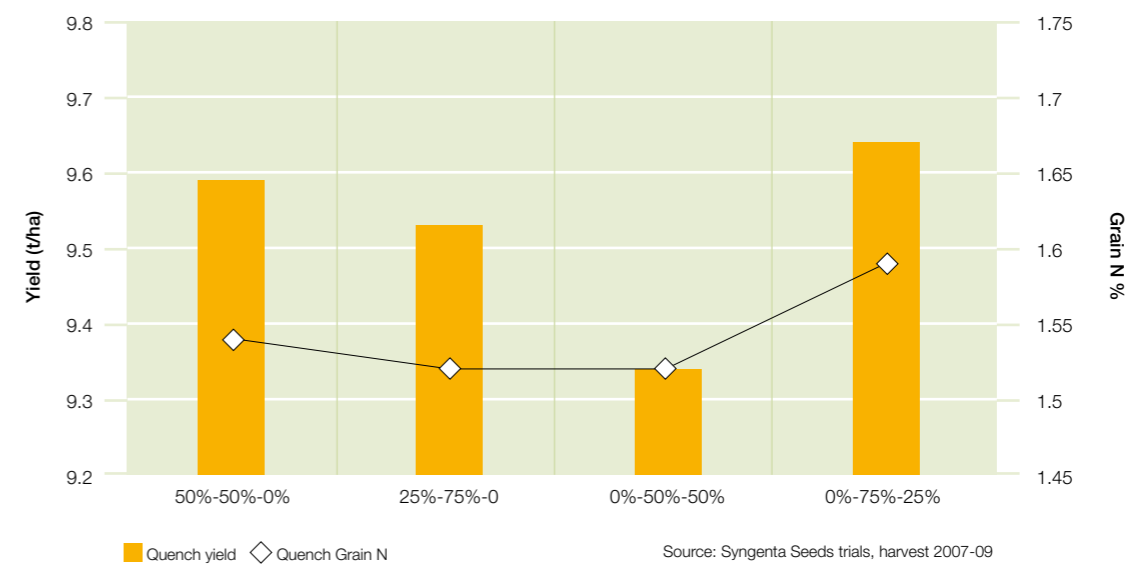
## Nitrogen application

On average over 50% of the spring malting barley that UK maltsters wish to purchase from England has grain N levels between 1.65 to 1.85%.

Varieties have different optimum nitrogen rates, therefore balancing N inputs to end market, variety and season is key.

### Ensure you have checked levels with your contract and end market.

Syngenta Seeds nitrogen input timing trials have shown the following effects:



In most situations the recommended amount of N for Quench would be 125-150 kg/ha, applied by GS15. These figures are for guidance purposes only. You must work with your agronomist when calculating nitrogen rates and timings, taking into consideration end market requirements and the fertility of the field. You should also work within any Defra guidelines / restrictions.

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## PGRs

Normally not required, however Syngenta Seeds advises their use on lush crops or very fertile sites. In these cases use low rate Moddus (0.1 – 0.2 lt/ha) at GS29-30 to stabilise tillers and promote root development.

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## Quality

Quench has full IBD approval for brewing and is the number one variety grown across Europe\*, offering potential export opportunities.

Quench also possesses a very 'balanced profile' in terms of the quality attributes required by European customers, including good Hot Water Extract, good levels of DP and low beta glucan.

\* Source: European Brewery Convention (EBC) malting barley multiplication acreage 2009.

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## Grain quality

**Specific weight:** 67.4 kg/hl

**Sieving % through 2.25mm:** 1.8%

**Sieving % through 2.5mm:** 5.9%

**Nitrogen content:** 1.54%

**TGW:** Good

Source: HGCA Recommended List 2010

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## Harvesting

**Top priority** – with all quality crops it is critical to harvest the crop in the best condition as soon as moisture is correct. As with all malting barleys, the variety should be kept separate to prevent contamination and to maintain the maximum premium from the end product.

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## Storage management

Correct storage of malting barley is a priority to ensure harvest quality remains. Malting barley should be at a moisture of below 14.5% to minimise the risk of moulds and dried in such a way so there is no damage to germination.

Grain temperatures and moistures should be checked regularly to ensure quality is maintained and germination levels are kept at 98% plus.

Source: HGCA Recommended List 2010 – the full database can be consulted at [www.hgca.com](http://www.hgca.com)  
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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