

# Quadra

Changed on: 19/05/2013



High Yielding Winter Hybrid Barley

**Parentage:** F1 Hybrid

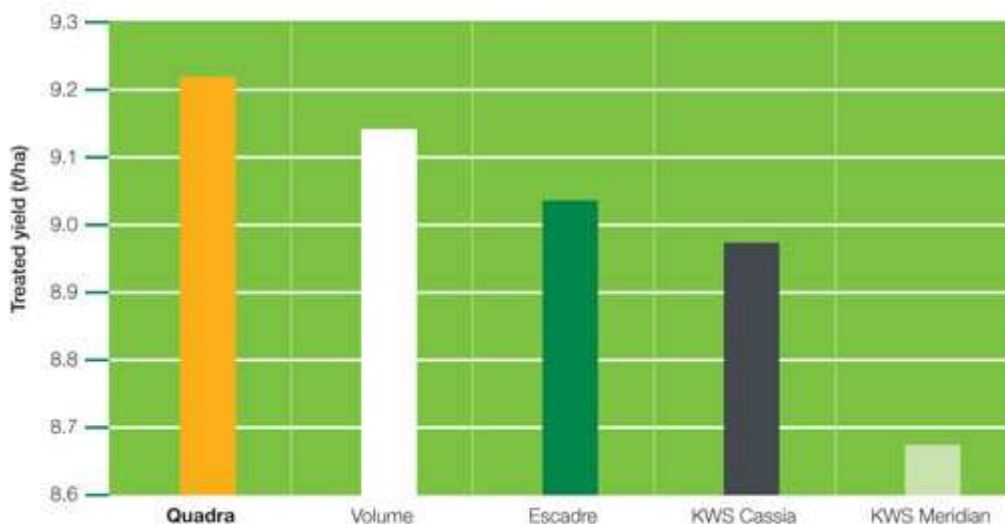
**Status:** Commercial Hybrid

## Yield potential

Quadra is a high yielding 6-row hybrid barley with excellent straw stiffness and early maturity.

Variety	UK treated yield (%) (100% = 8.4 t/ha)	UK untreated yield (%)
<b>Quadra</b>	<b>108.9</b>	<b>109</b>
KWS Cassia	104.3	107
Sequel	97.8	94

Source: HGCA WB RL Candidate Papers 2012



Source: Syngenta 6-row Commercial Trials Harvest 2012, 3 x locations

## Disease resistance

Quadra has a good disease resistance profile and is BaYMV resistant.

Variety	Mildew	Yellow rust	Brown rust	Rhynchosporium	Net blotch
Quadra	6.8	(9)	4.2	7.4	(7)

Source: HGCA WB RL Candidate Papers 2012

( ) Limited Data

### Fungicide use

To enhance grain fill, yield potential and grain quality, Quadra will benefit from a standard fungicide programme.

T0 - An application of AMISTAR OPTI at T0 has been found to be beneficial to hybrids.

T1 - The use of BONTIMA at T1 will provide clean, stress free lower green leaves to build yield potential.

T2 - BONTIMA at T2 gives outstanding protection against disease for green leaf retention, securing yield potential and increasing quality by driving grain size and grain fill.

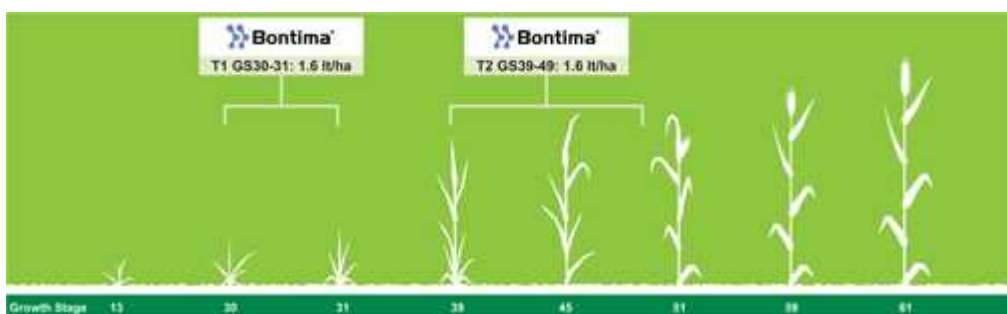
### Core programme

T0 - Fenpropimorph 0.3 lt/ha + AMISTAR OPTI 0.75 lt/ha

T1 - Bontima 1.6 lt/ha

T2 - Bontima 1.6 lt/ha

### Barley fungicide application timings



### Agronomic information

Quadra has tall straw with excellent standing power, combined with early maturity and BaYMV Resistance.

Variety	Straw length (cm)	Lodging Untreated	Ripening +/- Pearl
Quadra	95	(7)	-2
KWS Cassia	84	(7)	0
Sequel	98	(7)	-2

Source: HGCA WB RL Candidate Papers 2012

( ) Limited Data

### Growth habit

**Over Winter:** Semi prostrate

**Tillering Ability:** High

**Maturity:** Early

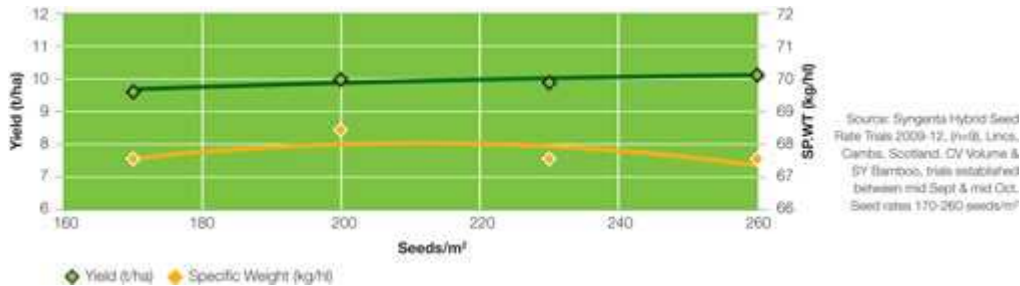
### Recommended sowing rates

Hybrid barley, as with other hybrid crops, is drilled at a lower seed rate to maximise the potential of hybrid vigour, yield and grain quality.

The table below shows the number of seeds per square metre that should be planted in good conditions.

	September	October	November
ENGLAND	200	230	260
SCOTLAND	200	230	N/A

The table above should always be used in conjunction with thousand grain weight of the seed to calculate the seed rate.



### Nitrogen application

Trials have shown that an early application of nitrogen will increase yield levels.

Quadra will need the same total dose of nitrogen as a conventional feed barley.

In normal situations application of the total dose is recommended as follows:

- 30% middle to end of February (GS25)
- 50% middle to end of March (GS30)
- 20% middle to end of April (GS32-37)

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.

### Early nitrogen application: NIAB/TAG support



### PGRs

Hybrid barley is drilled at a low seed rate to achieve the full yield and grain quality potential.

From GS30 onwards growth is rapid so the following PGR programmes are recommended:

- GS30-31: MODDUS 0.1-0.2 lt/ha + chlormequat 1.2-1.5 lt/ha
- GS37-39: ethephon + mepiquat 0.5-1.0 lt/ha

In very fertile situations consider splitting the first dose of growth regulators:

- GS29: MODDUS 0.1 lt/ha + chlormequat 1.2 lt/ha
- GS31: MODDUS 0.1 lt/ha + chlormequat 1.2 lt/ha
- GS37-39: ethephon + mepiquat 1.0 lt/ha

**Not applicable**