

HIGH YIELD
AND FULL IBD
APPROVAL



Flagon

Winter Malting Barley

Parentage: (NFC 296-7 x Rifle) x Pearl
Status: HGCA Recommended List 2011/12

High-yielding winter malting barley with full IBD approval for brewing

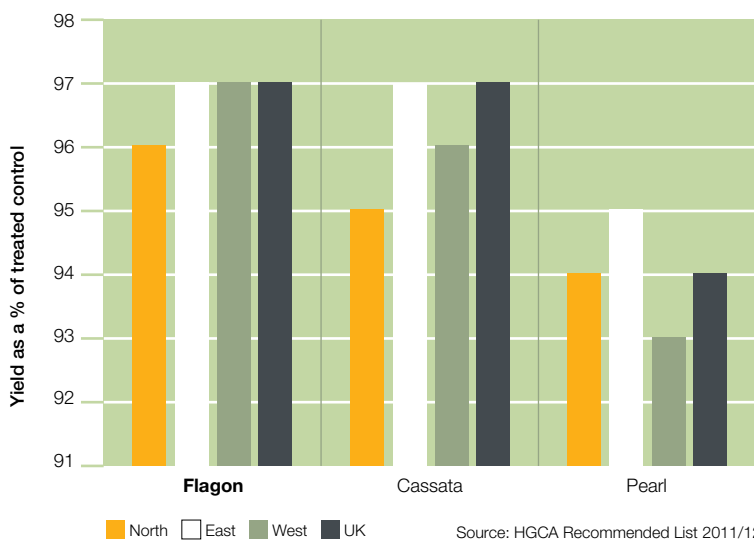
Yield potential

Flagon is a high-yielding, fully approved winter malting barley, with yields up to 3% higher than Pearl.

Variety	UK treated yield % (100%=8.9 t/ha)	UK untreated yield %
Flagon	97	82
Cassata	97	79
Pearl	94	77

Source: HGCA Recommended List 2011/12

Flagon has consistently high yield potential in all regions of the UK.



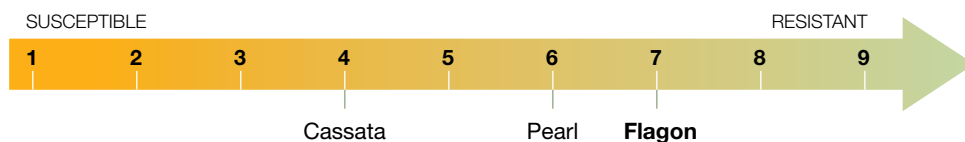
Syngenta is one of the world's leading companies with more than 25,000 employees in over 90 countries dedicated to our purpose: Bringing plant potential to life.

Disease resistance

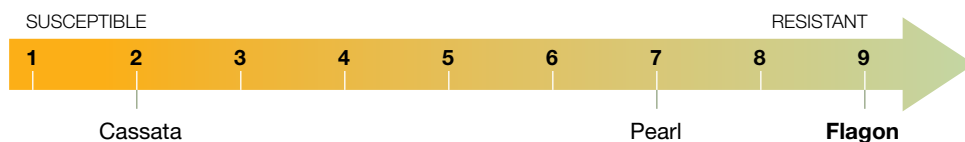
Flagon has outstanding all-round disease resistance ratings, with excellent resistance to mildew, Rhynchosporium and rusts.

Disease resistance ratings

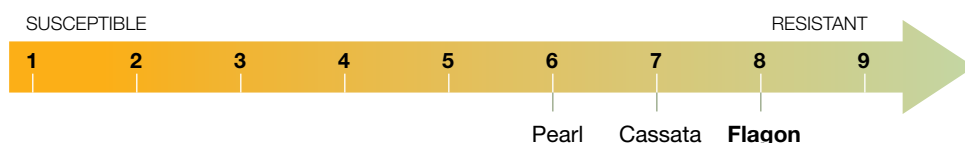
Mildew



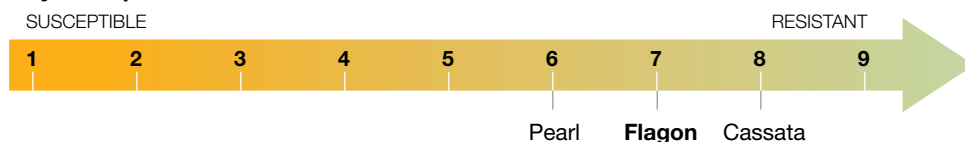
Yellow rust



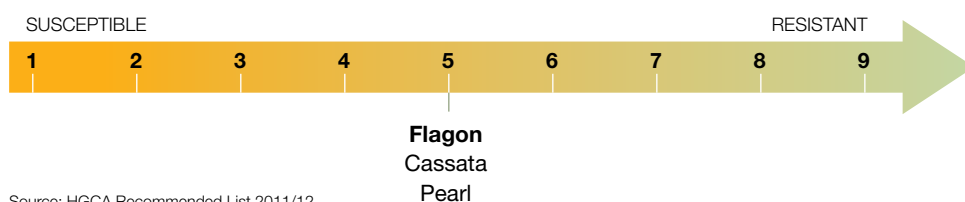
Brown rust



Rhynchosporium



Net blotch



Source: HGCA Recommended List 2011/12

Fungicide use

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

T0 – Needed only in extreme disease pressure situations.

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

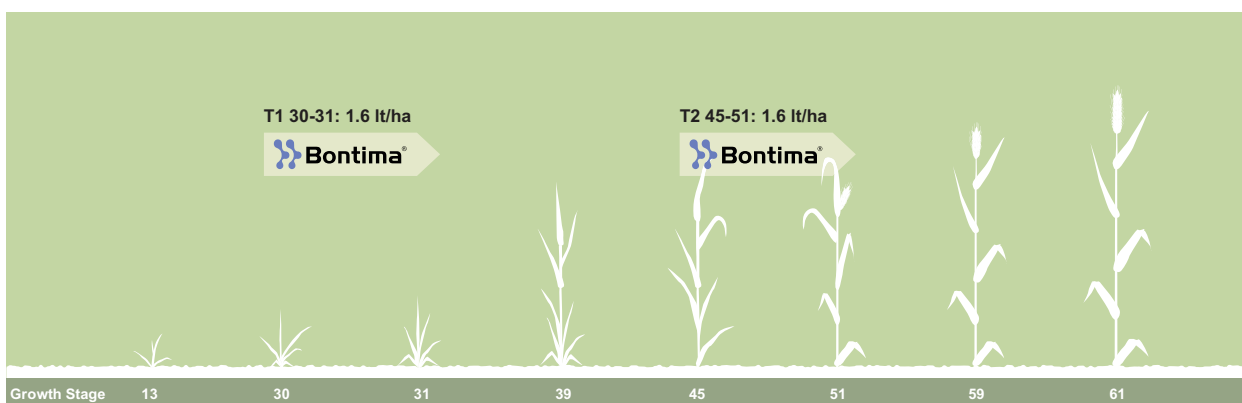
T0 – Morpholine if required

T1 – Bontima 1.6 lt/ha

T2 – Bontima 1.6 lt/ha

BONTIMA® is a next generation fungicide, specifically designed for disease control in barley.

Barley fungicide application timings



Agronomic information

Flagon is early to mature and a full PGR programme is recommended due to moderate straw strength.

Variety	Straw length (cm)	Ripening +/- Pearl	Lodging resistance	Winter hardiness
Flagon	97	-1	6	6
Cassata	87	0	8	6
Pearl	97	0	7	5

Source: HGCA Recommended List 2011/12

Growth habit

Over winter: Semi prostrate

Tillering ability: Medium

Maturity: Medium / early

Drilling dates

Suitability for early drilling: Good

Optimum drilling dates: End of September to early October

Suitability for late drilling (December): Medium

Recommended sowing rates

Seed rates are dependent on soil conditions at the time of drilling: the more difficult the environment, the higher the seed rate must be to compensate for potential plant loss. The table below shows the number of seeds per square metre that should be planted in good conditions.

	September	October	November
Seeds/m ²	325	350	375

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

Nitrogen application for a malting crop

Most commercial malting barley growers use between 100-120 kg/ha with a split dressing. Syngenta recommends 40 kg/ha in mid to late February and the remainder to be applied by the end of March. 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.

PGRs

Commercial malting barley growers have controlled lodging easily with a standard programme. On very lush or fertile sites a second PGR at GS37 may be required.

In normal situations consider;

GS31-32 ~ Moddus 0.2 lt/ha + Chlormequat 1.25 lt/ha at onset of stem extension.

GS37 - Ethephon + Mepiquat chloride 1.0 lt/ha

Quality

Flagon has full Institute of Brewing and Distilling (IBD) approval for brewing and an established demand among end users. It has high hot water extract levels and low beta glucan, providing excellent quality. Flagon is also an inherently low grain nitrogen producer, a critical element in achieving full specification.

Variety	Extract quality (L°/kg)	Specific weight (kg/hl)	Nitrogen content %
Flagon	307.8	69.8	1.66
Cassata	304.6	68.5	1.64
Pearl	307.1	70.3	1.71

Source: HGCA Recommended List 2011/12

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.

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 regularly checked to ensure quality is maintained and germination levels are kept at 98% plus.

Disclaimer

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