

HIGH YIELD  
AND FULL IBD  
APPROVAL



# Flagon

Winter Malting Barley

Parentage: (NFC 296-7 x Rifle) x Pearl  
Status: HGCA Recommended List 2010/11

Highest yielding winter malting barley with full IBD approval for brewing

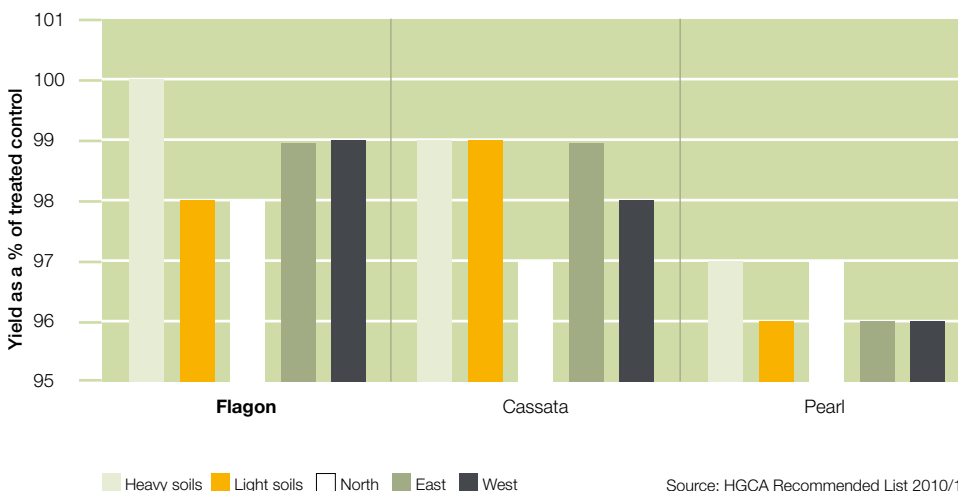
## Yield potential

Flagon is the highest yielding, fully approved winter malting variety in treated and untreated trials, with yields up to 3% higher than Pearl.

Variety	UK treated yield % (100%=8.6 t/ha)	UK untreated yield %
Flagon	99	83
Cassata	98	81
Pearl	96	79

Source: HGCA Recommended List 2010/11

## Yield performance



Source: HGCA Recommended List 2010/11



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APRIL 2010

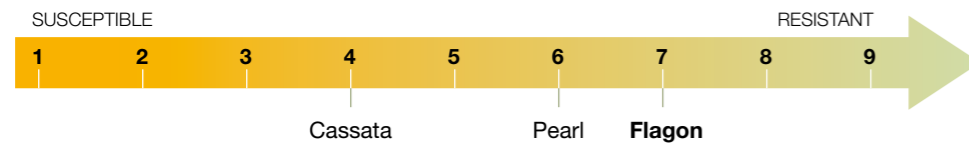
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## Disease resistance

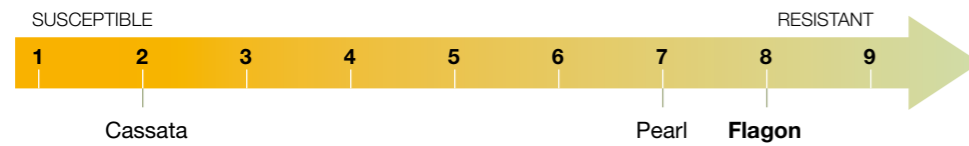
Flagon has outstanding all-round disease resistance: all ratings are at 6 or above.

### Disease resistance ratings

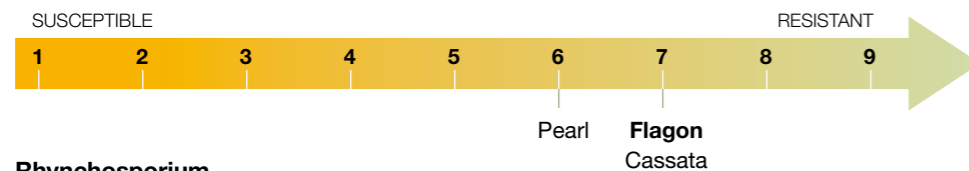
#### Mildew



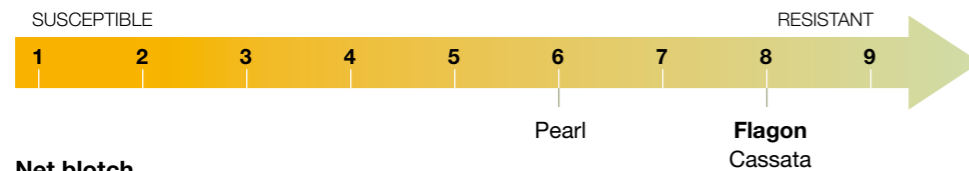
#### Yellow rust



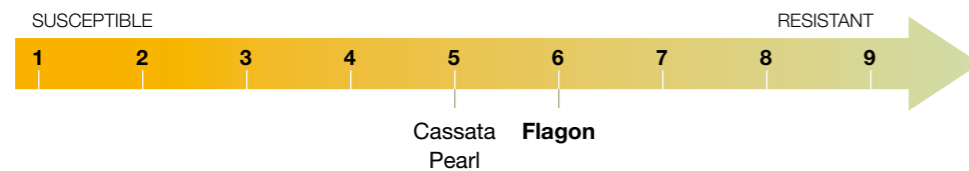
#### Brown rust



#### Rhynchosporium



#### Net blotch



Source: HGCA Recommended List 2010/11

## Fungicide use

Always consult your agronomist and adapt programmes to local conditions.

T0 – Unlikely to be needed.

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 and leaf spotting 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.

## Agronomic information

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

Variety	Ripening (+/- Pearl, -ve=earlier)	Straw height (cm)	Resistance to lodging	Winter hardiness
Flagon	-1	98	5	6
Cassata	0	88	8	6
Pearl	0	97	7	5

Source: HGCA Recommended List 2010/11

## Growth habit

Autumn: Semi-prostrate

Spring: Medium

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, rotation and 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 suggested number of seeds per square metre that should be planted under good conditions.

	September	October	November
Seeds/m <sup>2</sup>	325	350	375

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

## Nitrogen application for a malting crop

Most commercial malting barley growers use between 100-120 kg/ha with a split dressing.

Syngenta Seeds 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.

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	307.3	69.9	1.68
Cassata	304.3	68.6	1.68
Pearl	306.6	70.5	1.74

Source: HGCA Recommended List 2010/11

## 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.

Source (unless stated otherwise): HGCA Recommended List 2010/11 – the full database can be consulted at [www.hgca.com](http://www.hgca.com)

IBD listings can be consulted at [www.ukmalt.com](http://www.ukmalt.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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