



High Yielding Winter Malting Barley

Status: 2009 HGCA Candidate List

Parentage: Flagon x NFC 7169-01

Yield Potential

WINSOME is high yielding with malting potential.

Variety	UK treated Yield % (100%=8.6t/ha)	UK untreated Yield (100%=6.7t/ha)
WINSOME	100	98
Flagon	98	101
Pearl	98	96
Sequel	102	101

Source: HGCA/CEL Candidate List Harvest 2009.

Disease Resistance

WINSOME has an outstanding disease resistance profile: all ratings at 7 or above.

Variety	Mildew	Yellow Rust	Brown Rust	<i>Rhynchosporium</i>	Net Blotch
WINSOME	7	9	7	8	8

Source: HGCA/CEL Candidate List Harvest 2009.

As Flagon and Pearl, WINSOME is not BaYMV resistant.

Fungicide Use

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

- T0 - Needed only in extreme disease pressure situations.
- T1 - The use of Kayak + a triazole or strobilurin-based product gives a broad spectrum of disease control. Triazole should be added in a curative situation or where the crop is showing high levels of brown rust.
- T2 - Protect the green leaf and prolong grain filling. Premature senescence caused by disease and abiotic leaf spotting reduces yield and increases loss through screenings and specific weight. Bravo has been demonstrated to have an effect against biotic and abiotic leaf spotting as well as providing good disease control and prolonged green leaf retention.

Consider:

- T1 - Kayak 1.0lt/ha + ½ rate Triazole
- T2 - Amistar Opti 1.25lt/ha + ½ rate Triazole

Agronomic Information

WINSOME is early maturing and has shorter, stiffer, straw than Flagon or Pearl.

Variety	Straw Length (cm)*	Ripening +/- Pearl*	Lodging resistance**	Necking resistance**
WINSOME	88	-2	7	7
Flagon	93	0	4	5
Pearl	91	0	7	4

Source: * = HGCA/CEL Candidate List Harvest 2009.
** = Syngenta Seeds data (data on a 1-9 scale; 9 = high resistance)

Growth Habit

Over winter: Semi-Prostrate

Maturity: Early

Suitability for early drilling: Good.

Optimum drilling date: Mid-late September.

Tillering Ability: Medium / High

Recommended Sowing Rate

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	December
England	325	350-375	375-425	425
Scotland	350-375	375-400	-	-

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

Nitrogen Application ~ Malting Crop

Most commercial malting barley growers use between 100-150kg/ha with a split dressing. Syngenta Seeds recommends 40kg/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

WINSOME has good straw strength characteristics; with good resistance to lodging, leaning and necking. WINSOME also has shorter straw than existing market leading malting barley varieties.

In normal situations consider:

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

On fertile sites consider applying Terpal 1.0lt/ha (Ethephon + Mepiquat chloride) at GS 37.

Grain Quality

Specific Weight: 68.3 kg/hl

Source: HGCA Candidate List Harvest 2009.

Sieving % through 2.25mm: 2%

Sieving % through 2.5mm: 8%

Nitrogen content %: 1.67%

Source: Syngenta seeds 2 year mean.

Grain nitrogen levels are between Flagon and Pearl.

Malting Quality

	Hot water extract	Diastatic power	Beta glucan	Viscosity
WINSOME	311	115	76	1.50
Flagon	310	84	95	1.49
Pearl	309	121	88	1.50

Source: IBD consolidated data, harvest 2007.

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