



# NFC Tipple

Spring Malting Barley

Parentage: (NFC 497-12 x Cork) x Vortex

Status: HGCA Recommended List 2010

**The established pan-European  
spring malting barley**

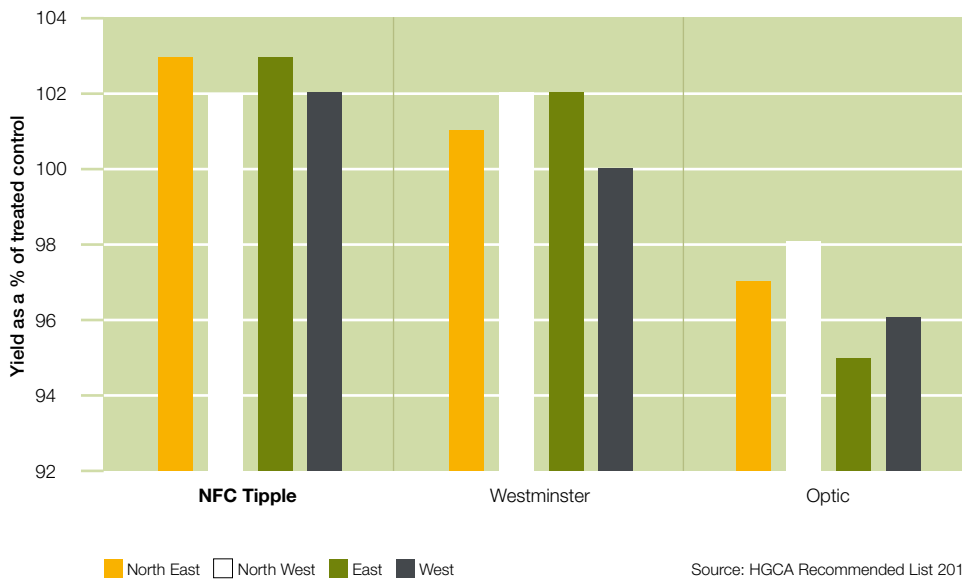
## Yield potential

NFC Tipple is a high yielding spring malting barley with full IBD approval for brewing.

Variety	UK Treated Yield % (7.2 t/ha)	UK Untreated Yield %
NFC Tipple	103	91
Westminster	101	94
Optic	97	80

Source: HGCA Recommended List 2010

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



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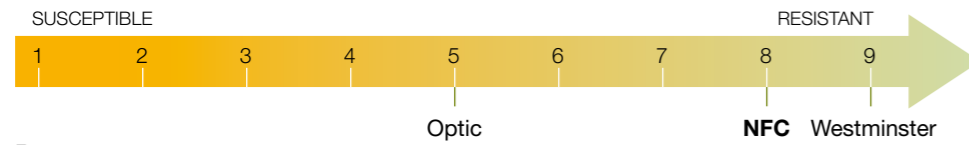
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## Disease resistance

NFC Tipple has exceptional disease resistance to mildew and brown rust, however a managed fungicide programme is recommended.

### Disease resistance ratings

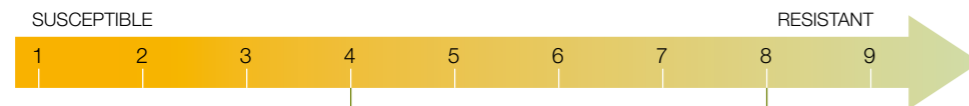
#### Mildew



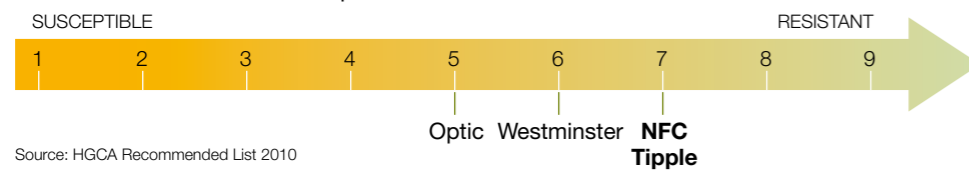
#### Brown rust



#### Rhynchosporium



#### BYDV



Source: HGCA Recommended List 2010

## Fungicide use

Always consult your agronomist and adapt programmes to local conditions.

- T0 – Needed in extreme disease pressure situations (especially Rhynchosporium).
- 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 + prothioconazole GS30 (will give control of a broad spectrum of diseases).
- T2 – Amistar Opti + prothioconazole GS39-45 (protection against foliar disease and control of biotic and abiotic spotting).

### REGIONAL PROGRAMMES

#### West of England

- T1 – Kayak 1.0 lt/ha + Proline 0.4 lt/ha or Opus 0.6 lt/ha
- T2 – Amistar Opti 1.0 lt/ha + Proline 0.4 lt/ha or Opus 0.6 lt/ha

#### South & East England

- T1 – Kayak 0.75 lt/ha or Opus 0.4 lt/ha + Amistar Opti 0.75 lt/ha
- T2 – Amistar Opti 0.75 lt/ha + Opus 0.4 lt/ha

## Agronomic information

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

Variety	Resistance to lodging	Straw height (cm)	Ripening (+/- Optic, -ve=earlier)	Resistance to brackling
NFC Tipple	7	70	0	7

Source: HGCA Recommended List 2010

## Growth habit

**Early spring:** Semi prostrate  
**Tillering ability:** Medium-High  
**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. NFC Tipple 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 NFC Tipple'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

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.

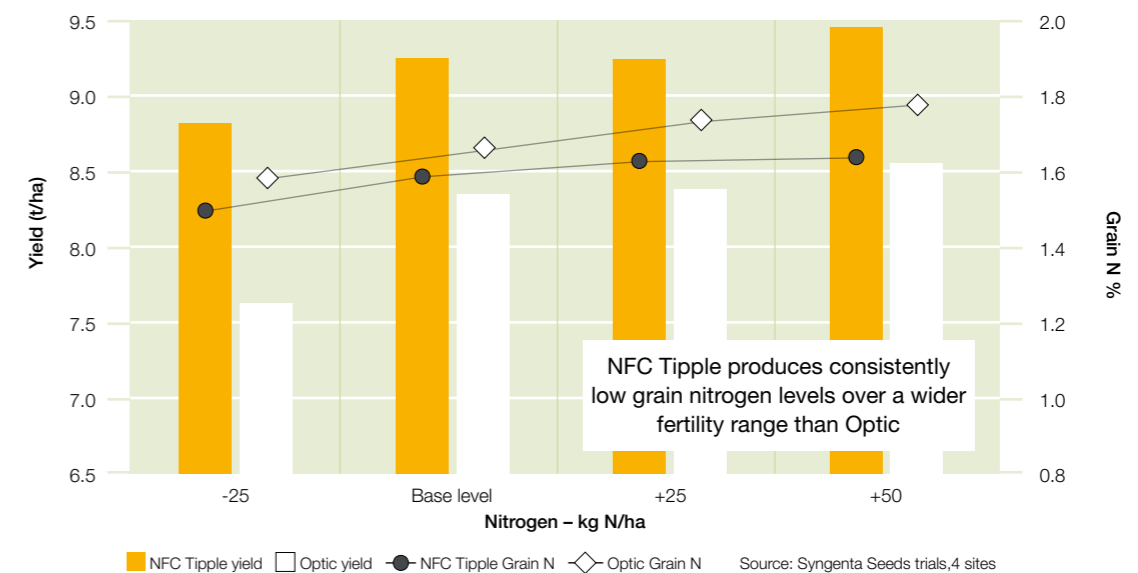
Syngenta Seeds nitrogen input trials have shown the following effects to changes in N timing and quantity for NFC Tipple:

- NFC Tipple produces high yields and maintains large grain size over a range of fertility levels.
- NFC Tipple grain N levels did not exceed 1.65% at the highest level of application (175 kg/ha).
- NFC Tipple produces consistently low grain nitrogen levels over a wider fertility range than Optic.
- To achieve higher grain N, suitable for European export, first application can be delayed by 7 days with no detrimental effect to grain size or quality.

In most situations the recommended amount of N for NFC Tipple would be 125-150 kg/ha.

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.

### Influence of nitrogen input on yield and grain N levels



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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 GS 29-30 to stabilise tillers and promote root development.

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## Quality

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

As a result, NFC Tipple is an extremely popular spring malting barley in the UK and across Europe.

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## Grain quality

NFC Tipple has big, bold grain, leading to fewer sieving losses.

**Specific weight:** 68.0 kg/hl

**Sieving % through 2.25mm:** 1.7%

**Sieving % through 2.5mm:** 5.1%

**Nitrogen content:** 1.51%

**TGW:** Good

Source: HGCA Recommended List 2010

NFC Tipple is an inherently low nitrogen barley, producing 0.05 lower N levels than Optic, therefore making it even easier to meet end user specifications.

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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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