

# BOREALE

**2 row winter barley variety**  
**Listed in the French catalog in October 2001**

## MORPHOLOGICAL AND PHYSIOLOGICAL CHARACTERS

BOREALE is a half-winter type with a medium but stiff straw (slightly shorter than PLATINE). Semi-early (near PLATINE), it has a good resistance against lodging (7) and a rather good resistance for winter hardiness (5,5).

Its resistance for the main diseases is quite good : mildew (6), Rynchosporium (4), Net blotch (6+) and brown rust (6+). BOREALE is resistant to the M and Y1 mosaic viruses, character for which the CTPS has given a bonus to the variety.

( ) : Official data (+) : Bonus

## PRODUCTIVITY

In the official trials of the CTPS – North area, the yield of BOREALE has been of 104,4 % of standards for harvest 2000 and 2001 (27 treated trials and 26 untreated trials).

Standard Harvest 2000 : PLATINE, SUNRISE, PASTORAL  
Standard Harvest 2001 : PLATINE, SUNRISE, ORELIE

BOREALE's yield is regular.

The trials led by seed distributors and institutes since registration confirm the good potential of BOREALE.

## TECHNOLOGICAL VALUE

BOREALE has a high technological value. It shows very favourable "barley" characteristics : very good grading (CLARINE + 4,7), BOREALE is in T class (Very high) and has a moderated protein content (CLARINE + 0,6).

As for the "Malt" quality, in official trials, BOREALE is in the highest class (A class, higher than standard) thanks to its high extract level, its very good diastasic power and good modification characteristics.

BOREALE shows also a very good functional index (A class, higher than standard). Consequently, it has achieved successfully the pilot tests of the industrial Malting and brewing chain (CBMO).

## CULTIVATING CHARACTERISTICS

### Sowing

BOREALE should be sown at a normal date, not too early.

Drilling rate should be adapted to the regional recommendations and will be increased in case of bad soil conditions or if the sowing date is late.

Seed treatment with a commercial speciality including insecticide protection is advised.

Supervision against slugs should occur upon drilling.

### Fertilizer and treatments

Due to its brewing quality, a integrated nitrogen fertilizer (based on the method of evaluation for brewing barley) should be applied.

Even if its resistance against diseases is satisfactory, the application of an appropriate and integrated fungicide protection is advised. The use of growth regulators is also advised depending on the soil conditions.

### Harvesting

As for any malting and brewing barley, harvest should be done after complete maturity, at a humidity level lower than 15 %, and stored in pure variety.

**With a very good malting quality, BOREALE is a new 2 row winter brewing barley showing a high yield potential together with an excellent grading. These qualities allow also a growth in feed area.**



Breeder

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