

Lentils: seed treatment with Chelal Co NF

Aim of the trial

The purpose of this trial is to test the seed coating with Chelal Co NF in lentil cultivation to increase the vigour and yield of the crop. The use of cobalt (Co) is essential for leguminous crops to feed the bacteria in the root nodules.

General information

Conditions of the trial:

Trial location: France – Pays de la Loire
Quantity of seeds/ha: 110 kg (350 seeds/m²)

Sowing date: 29/03/2019
In cooperation with: CAVAC

Experimental design:

Fisher's experimental block test; 4 repetitions
Size of elementary plot (repetition): 1,60 m by 10 m = 16m².

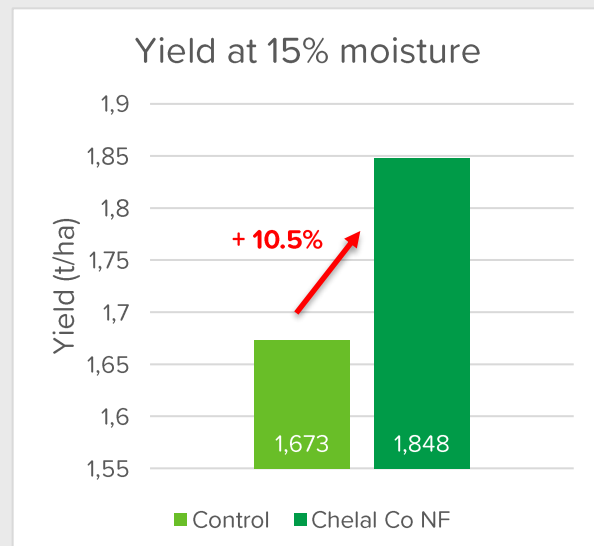
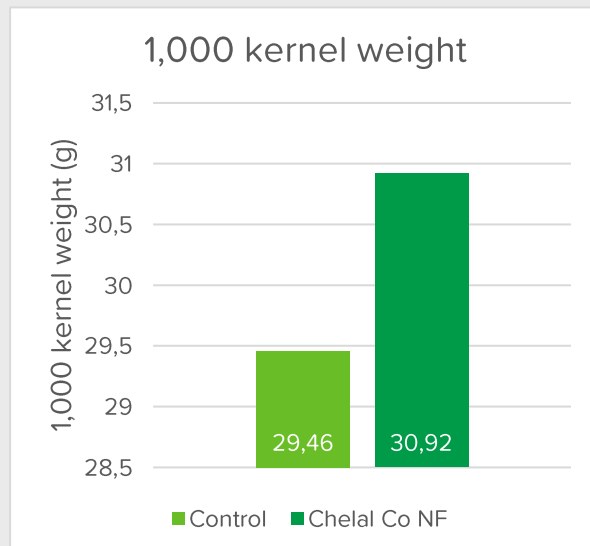
Treatments

2 modalities:

- Untreated control
- BMS MN:
 - o Seed treatment: Chelal Co NF at 0,1 L for the seeds of 1 hectare

Results

27 days after sowing (3-leaf stage), a plant density count was performed to determine the influence of the coating on the emergence. The treatment had no effect on the emergence of the lentils. No symptoms of phytotoxicity were observed on the lentils.



Chelal Co NF provides a gain of almost 200 kg/ha. The difference remains small and is not statistically significant. Chelal Co NF is identical to the control in terms of specific weight (SP).

Conclusion: Most of the variables analyzed show no statistical differences between the modalities. However, the modality with the low dose of cobalt seems to allow for an increase in yield and 1,000 kernel weight while maintaining the SP.