



Maize: Chelal Zn

Aim of the trial

Increasing the yield of the corn crop with an application of Chelal Zn.

General information

Conditions of the trial:

Trial location: France – Rhône Alpes

In cooperation with: Oxyane

Soil type: Clay loam, $pH_{H_2O} = 5.8$, $pH_{KCl} = 4.8$, OM = 3.8%

Experimental design:

Field trial on large plots, without replicates.

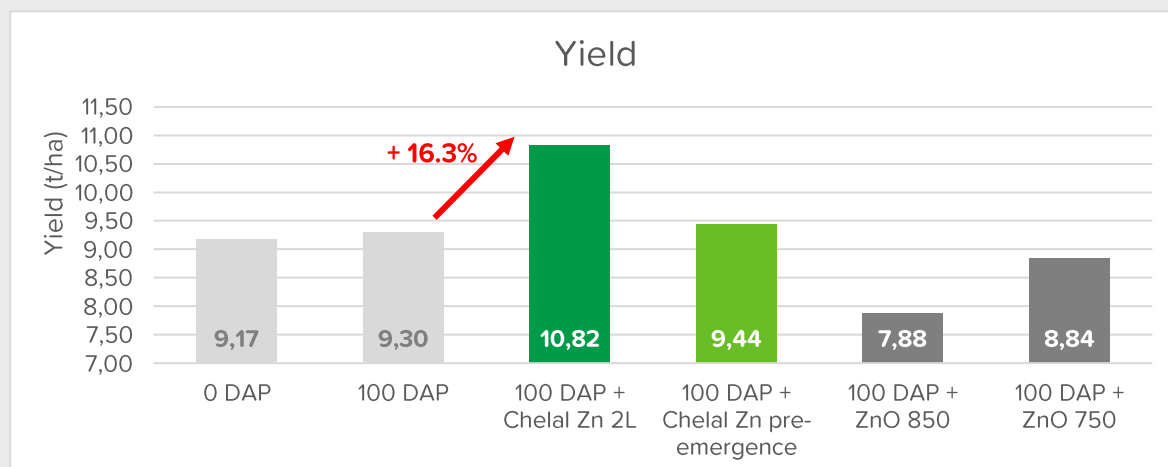
Treatments

6 modalities:

Modality	Soil fertilization	Zn application
1	-	-
2	DAP 100 kg/ha	-
3	DAP 100 kg/ha	Chelal Zn at 2 L/ha in 4 F stage
4	DAP 100 kg/ha	Chelal Zn at 3 L/ha pre-emergence
5	DAP 100 kg/ha	Zinc oxide (850 g/L Zn) at 1 L/ha pre-emergence
6	DAP 100 kg/ha	Zinc oxide (750 g/L Zn) at 1 L/ha in 4 F stage

Results

	Yield (t/ha)	Moisture (%)
1. 0 DAP	9.17	17.8
2. 100 DAP	9.30	17.5
3. 100 DAP + Chelal Zn 2L	10.82	18.1
4. 100 DAP + Chelal Zn pre-emergence	9.44	18.0
5. 100 DAP + ZnO 850	7.88	17.3
6. 100 DAP + ZnO 750	8.84	17.5



Conclusion:

We see that the two best modalities are those with zinc in chelated form as Chelal Zn. In this case, the modality with 2 L/ha Chelal Zn at stage 4F is the modality with the best result (+ 16.3% yield).