



Maize: Viener Zn

Aim of the trial

The effect of a seed treatment (coating) with Viener Zn on maize has been investigated in a two-year field trial.

General information

Conditions of the trial:

Trial location: Italy – Piemonte
 Variety: Pioneer PR32A46 and Pioneer P1547
 Sowing dates: 25/03/2011 and 22/03/2012
 Harvest dates: 05/09/2011 and 13/09/2012
 Soil type: Loamy
 In cooperation with: Università Degli Studi Di Torino (DISAFA)

Experimental design:

Complete randomized design with microplots; 4 replicates. Area of a microplot: 30 m². 2 maize hybrids (Pioneer PR32A46 vs Pioneer P1547) with different juvenile vigour were used in this trial.

Treatments

2 modalities:

- **Untreated control**
- **Viener Zn:** seed treatment. Dose: 10 g/kg seeds

Results

The data reported are the means of 2 years, 2 hybrids and 4 replicates.

Modality	NDVI ¹	Height of the plants ² (cm)	Flowering date ³ (Number of days)	Grain yield (t/ha)	Severity of rot on the cob ⁴ (%)
Control	0.49 b	27.7 b	103 a	15.9 b	8.2 a
Viener Zn	0.52 a	36.9 a	102 a	16.4 a	6.8 a

Values in the same column followed by the same letter are not significantly different ($P < 0,05$).

¹ NDVI vegetation index measured at the 8-10 leaf stage of maize

² Height of the plant measured from the ground to the last node, measured in the rapid growth phase

³ Flowering date expressed in number of days from sowing

⁴ Severity of rot (Fusarium) expressed as mean percentage of the cob with fungal symptoms.

