

Boron in Corn

Study Details

Date: June 12, 2011 – October 3, 2011

Location: Shijiazhuang, Hebei, China

Variety: Jundan 20

Soil: Cinnamon soil, loam, 20.3 g/kg organic materials, 1.86 g/kg total nitrogen, 70 mg/kg available phosphor, 110 g/kg available potassium, pH = 8.1

Fertilizers: Water soluble particles with B \geq 10%, Zn \geq 10%, 400 g/mu was spread in the soil when the maize seeds were sowed together with routine fertilization

Trial design: 2 treatments, 4 replications, plot area of 20 m²

Results

At the application rate of 400 g/mu after routine fertilization:

- Maize had strong green leaves, large-diameter string stalks, full kernel and high 1000-grain weight
- Yield was increased by 36.12 kg (7.03%) as compared with routine fertilization