Boron in Corn

Study Details
Date: April 25, 2011 – October 30, 2011
Location: Yongji, Jilin, China
Soil: Alluvial, 2.21% organic substance, 205 mg/kg total nitrogen, 97 mg/kg available phosphor, 98 mg/kg available potassium, pH = 5.6
Crop variety: Xianyu 335
Fertilizers: Water soluble boron fertilizer with B ≥10%, Zn ≥10%, mixed fertilizers (28-8-16, ≥ 52%), 400 g per 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 40 m²

Results
At the application rate of 400 g/mu after routine fertilization:
- Yield was increased by 7.9% as compared with the mixed fertilizer containing Zn
- Yield was increased by 8.3% as compared with application of mixed fertilizer containing no Zn