Effect of herbicides and fungicides on \(\text{N}_2\)-fixation and seed yield of soybean (cv. Williams)

Mohammad Reza Aredkan, Amin Falaqand, Islam Majidi Horrow, Hassan Al-Burdawie

Abstract

The study investigated the effect of herbicides and fungicides on the \(\text{N}_2\)-fixation and seed yield of soybean (cv. Williams). The experiment was conducted at the Field Research Center of the College of Agriculture, University of Maysan, Iraq. The treatments included five herbicides and three fungicides, applied at a rate of 900 liters/ha. The results showed that the use of herbicides and fungicides significantly increased the seed yield of soybean. The highest seed yield was obtained with the herbicide glyphosate and the fungicide carbendazim. The study concluded that the use of these chemicals can improve soybean production.