Effect of herbicides and fungicides on N₂-fixation and seed yield of soybean (cv.Williams)

Mohammad Reza Ardekani, Amir Qalamdoost, Asoleh Majidi Heidari, Hashem Al-Badawi

The effect of herbicides and fungicides on N₂-fixation and seed yield of soybean (cv.Williams) was investigated. The results showed that the use of herbicides and fungicides had a significant effect on N₂-fixation and seed yield. The highest N₂-fixation and seed yield were observed in the treatment without herbicides and fungicides. The use of herbicides and fungicides at high concentrations reduced the N₂-fixation and seed yield. The results also showed that the use of herbicides and fungicides at moderate concentrations had a minimal effect on N₂-fixation and seed yield. The optimal concentration of herbicides and fungicides for maximum N₂-fixation and seed yield was determined to be 0.5 ppm.