

## 玉米秸秆还田对塑料大棚蔬菜连作土壤改良效果研究(初报)

### Effects of Uncomposed Corn Straw on Improvement of Soil With Contineous Cropping in Plastic House

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中文摘要:

研究了施用玉米秸秆对蔬菜塑料大棚连作土壤的改良效果及其对黄瓜生长的效应。结果表明: 施用0.4%~1.2%玉米秸秆能明显提高土壤有机质含量和孔隙度、降低土壤容重, 改善耕层的通透性。秸秆处理还可降低土壤的电导度(EC), 遏制土壤次生盐渍化。施用玉米秸秆促进了黄瓜生产, 春茬黄瓜比对照增产5.0%~10.1%, 秋茬黄瓜比对照增产11.7%~26.9%。

英文摘要:

A field experiment was conducted to study the effects of uncomposed corn straw applied to contineous cropping in plastic house on the soil improvement and cucumber growth and development. The results showed that corn straw application could increase the organic matter and total porosity and decrease bulk density in the soil. The salinity (EC) of soil in plastic house was decreased by corn straw application. Production of fruit of spring cucumber was increased by 5.0%~10.1% and autumn cucumber by 11.7%~26.9%, when 0.4%~1.2% of corn straw was applied.

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