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氮素营养对甜椒果实生长发育的影响

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Effect of the nitrogen nutrition on fruit growth and development of sweet pepper

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摘要 采用营养液培养试验,研究了氮素营养对甜椒果实生长发育的影响。结果表明,氮素营养过高,门椒难以座果,首次商品果实的上市时间推迟7d以上。氮素营养对甜椒前期商品果产量及产量性状的综合影响看出,中氮营养处理可获得最高的商品果产量,主要是各层位果实的高收果数,而与单果鲜重差异不明显;氮素营养过高或过低均导致商品果产量降低,因单株平均收果数降低,且单果重下降。高氮营养有利于提高后期幼果座果率。试验还发现,甜椒的结果习性在很大程度上取决于其植物学特性,氮素营养对果实发育进程的促进或延缓作用在某种程度上可能大于对结果数量的影响。中氮营养条件下,二分侧枝整枝方式对甜椒的结果数量和产量的影响符合等比数列 $Y=2(n-1)$ 的理论模型。

关键词: 氮素营养 甜椒 生长发育 氮素营养 甜椒 生长发育

Abstract: The effect of nitrogen on the fruit growth and development of sweet pepper (*Capsicum frutescens* var. *grossum*) were studied by soluble culture. The results showed that it was difficult to set the first fruit of sweet pepper under the condition of nitrogen excessive. Therefore, fruit harvest delayed over 7 days at least and it could loss the chance of come into the market. The comprehensive effect of nitrogen on market fruit yield and characters indicated: The highest market fruit yield was obtained under moderate nitrogen level (middle N), because of the highest percent of fruit harvested on every fruit set positions of branch. However, the lower and excessive nitrogen nutrition decreased the fruit yield of sweet pepper. It was found that the behavior of setting fruits of sweet pepper was depended on its botany characteristics. The promote or delay of nitrogen on the fruit development might have more effect on fruit setting amounts on some degree. The model of yield or amount of fruit setting could be described as $Y = 2(n-1)$ under moderate nitrogen nutrition when the sweet pepper was trained with two main branch and one main stem on a single plant. Compared with the theoretical yield and practical yield of sweet pepper obtained in the experiment, it was found that there was the consistent in fact, and forward the application foreground of the model was discussed.

Keywords:

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