Improvement of fertilizer applications on tun-kan fruit in I -Lan district[1]

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summary

Most of citrus orchard soils in I-Lan are characterized by its strong acid reaction. The strong acidity of soils is presumed partially responsible for the low productivity and short life of citrus trees. The problems are resulted from using large amount of acid fertilizers and continuous rainfall during the period of fruit growth.

The bases of establishing optimun criteria of citrus leaves for the diagnostic purpose in Taiwan have been reviewed, and the criteria has been established. According to this criteria, the nutritional problems of citrus in I-Lan are low in calcium, magnesium and high in nitrogen.

To improve the yield and quality of citrus in I-Lan, different kind of fertilizers were applied in orchard. Results showed that humic acid(2kg/ plant) could increase sugar content about 3 Brix and 1 Brix, organic manure (8kg/plant) could increase the yield about 8　15% and 82　93% in 1990, 1991 respectially. Therefore, continuous supply of organic manure and improve the soil acidity could increase the absorption rate of nutrition and promote the yield and quality.

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