

论文

基于SPAD值的烤烟鲜烟叶成熟度量化研究

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摘要 利用SPAD-502叶绿素仪进行了连续两年的田间试验, 研究了烤烟鲜烟叶的成熟度量化判别。结果表明, 不同成熟度鲜烟叶的叶绿素含量差异显著。选取与叶绿素含量关系密切的SPAD值作为鲜烟叶成熟度的判别指标, 并利用建立的烟叶成熟度叶绿素计读数模型TMDSPADV, 模型的判别分类与试验的成熟度分类符合率为91%。因此, 基于SPAD的成熟度TMDSPADV模型, 可进行量化的鲜烟叶成熟度判别。

关键词 [烤烟; 成熟度; SPAD; 叶绿素](#)

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Study of Numeric Maturity Degree of Fresh FCV Tobacco Leaves at Harvesting Time Based on SPAD Value

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Abstract

Field experiments were conducted for two consecutive growing seasons for the application of SPAD-502 (a chlorophyll meter) for digital identification of maturity of fresh flue-cured tobacco at harvesting time. The results showed that the maturity degree was closely affected by the chlorophyll content of the leaf. SPAD value which closely related to the chlorophyll content was chosen as an indicator to determine the leaf maturity. The consistency reached 91% by the TMDSPADV model which was established based on chlorophyll content readings compared with the maturity degrees judged by the experiment. It is applicable to identify leaf maturity by TMDSPADV model.

Key words [Flue-cured tobacco; Maturity Degree; SPAD; Chlorophyll](#)

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